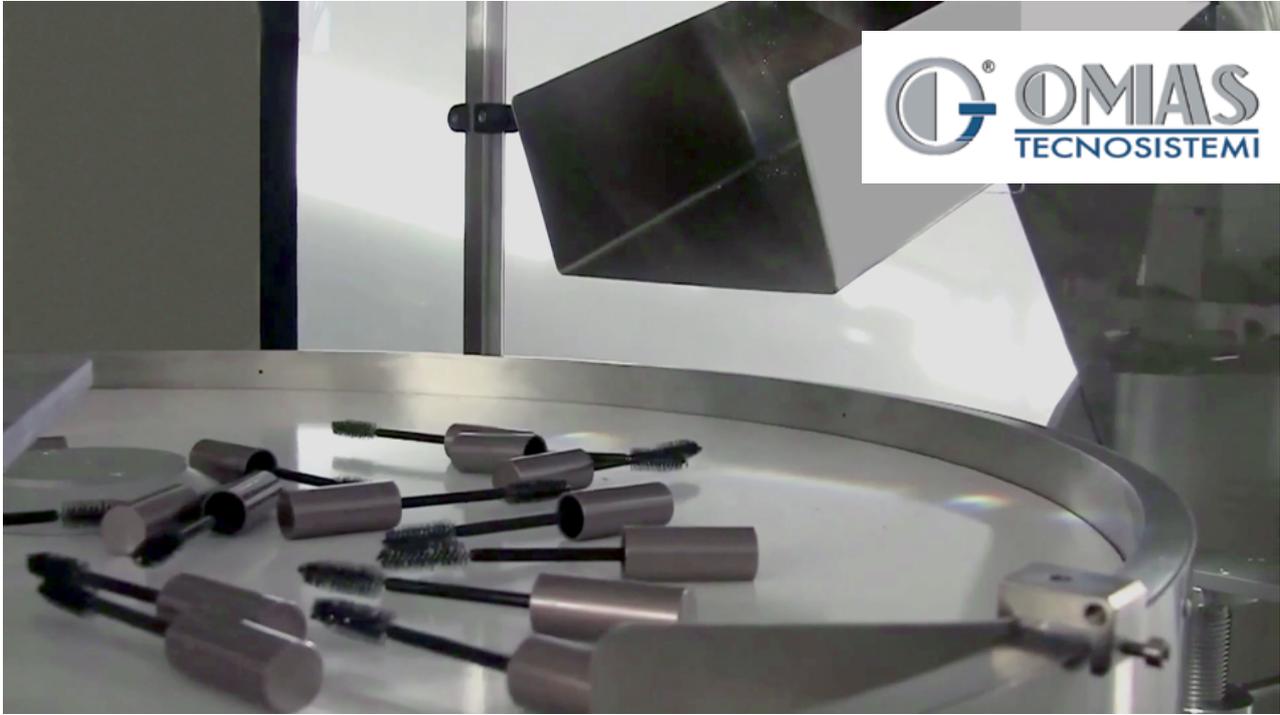


Ars Automation

Application notes

Case Study: feeding solution to handle heavy metal brackets for a press loading process in the metalworking industry



Industry insights

The cosmetics industry faces numerous challenges: the unpredictable nature of demand and frequent changes in product lines often result in ongoing adjustments to production batches, complicating the production planning process. Additionally, from a product feeding perspective, the industry confronts unique challenges: one of which is managing small, delicate items like mascara brushes. Generally speaking, cosmetic products have complex geometries and delicate materials, making them difficult to handle with traditional feeding systems. This is why many companies still prefer to manage certain processes manually.

Handled parts

For this project, the task was to handle pre-assembled items, specifically mascara brushes. These delicate products, with their unique geometry, are prone to overlapping, making them difficult to manage with traditional handling systems.



Ars Automation

Application notes

The configuration

To automate the capping machine's loading operations, an important cosmetic company entrusted our partner, Omas. The chosen solution was to adopt a flexible feeding system. FlexiBowl® delicately separates and orients the brushes, subsequently feeding them to a Scara robot. This robot, equipped with a turning unit in its end-of-arm tooling, ensures precise pickup and systematically places the brushes vertically into a deposit on the rotary table.



FlexiBowl® 650

Traditional Operating Mode

Results

With the integration of the flexible feeding system, FlexiBowl®, our client successfully automated the loading process of the capping machine – a delicate operation that many companies still manage manually. This automated approach not only enhanced process efficiency but also minimized errors. More importantly, it upholds high-quality standards, significantly reducing damage to the pre-assembled product, ensuring optimal product integrity and consistent output quality.

Key points



Beauty &
Cosmetics



Capping
Process



FlexiBowl®
650



Adept
Robot



Delicate
Products