

# HAORUIDE Automation Equipment Enhances BB Cream Texture for Advanced Dimensional Makeup

GUANGZHOU, GUANGDONG, CHINA, April 3, 2026 /EINPresswire.com/ -- Recently, the beauty industry has observed a growing trend in creative BB cream applications, where professional makeup artists and content creators employ specialized techniques to produce light-and-shadow dimensional effects. This trend has increased attention on the formulation, texture, and application consistency of BB cream, particularly regarding smoothness, coverage, and adherence. HaoruiDe (Guangzhou HaoruiDe Chuangsi Precision Technology Co., Ltd.), a [leading provider of automated cosmetic manufacturing solutions](#), supports these advancements through precision BB cream filling machines, which contribute to enhanced texture, consistent formulation distribution, and process efficiency.

## Technical Highlights: Precision Filling for Consistent Texture

Consistency in filling and formulation distribution is a critical factor in cosmetic product quality. HaoruiDe's

BB cream filling machines use four-head synchronous filling technology, achieving production rates of up to 3,000 units per hour while maintaining filling accuracy within  $\pm 0.2$  g. This precision ensures that the product maintains uniform texture and optimal spreadability across each container. The ceramic pump system, employed in the filling mechanism, offers wear resistance,



facilitates cleaning, and ensures stable long-term performance. By controlling dosage with high accuracy, the system produces BB cream that spreads evenly on the skin, forming a reliable foundation for dimensional makeup effects.

In addition to consistency, precise filling reduces material waste and minimizes the need for corrective adjustments post-production. Such capabilities allow manufacturers to maintain uniformity across batches, which is particularly important when producing multi-shade or limited-edition products. In environments where product integrity directly impacts user perception and brand reputation, reliable automation ensures predictable results and helps support compliance with cosmetic manufacturing standards.

### Multi-Color Filling Supports Product Innovation

HaoruiDe equipment is designed to accommodate single-color, dual-color, three-color, and multi-color filling, offering flexibility in producing complex formulations or aesthetic patterns. This capability allows cosmetic brands to create gradient effects, layered textures, or multi-shade combinations without constraints on design complexity. Integrated ring-track conveyor systems maintain positioning accuracy within  $\pm 0.05$  mm across 16 stations, preventing spillage and maintaining a product qualification rate of 99%. Such precise mechanical alignment is essential for products that combine multiple colors or textures in a single container, which are increasingly popular in premium and mid-range BB cream products.

The multi-color filling capability also supports experimentation with emerging trends, such as custom gradient blush, contouring formulas, and multi-shade facial base products. By enabling controlled, repeatable multi-color distribution, manufacturers can explore innovative combinations that respond to regional or seasonal color trends, increasing product differentiation without compromising operational reliability.

### High-Viscosity Handling Expands Formulation Possibilities

BB cream formulations vary widely in viscosity, depending on coverage, finish, and application method. HaoruiDe systems are capable of handling liquids with viscosities exceeding 40,000 mPa·s and support sponge densities up to 50 kg/m<sup>3</sup>. This capability allows manufacturers to produce high-viscosity BB creams that maintain excellent spreadability, skin adhesion, and coverage, while enabling greater creative freedom in formulation design. By accommodating diverse product textures, automation systems support emerging cosmetic trends, including long-lasting wear, moisturizing finishes, and high-pigment formulations.

High-viscosity adaptability also enhances the potential for integrating additional functional ingredients, such as SPF compounds, pigments, or skin-care actives, without negatively affecting the product's flow characteristics during manufacturing. This flexibility allows cosmetic developers to respond to evolving consumer expectations, regulatory requirements, and international market demands with minimal compromise in production consistency.

### Automated Production Enhances Efficiency and Reliability

HaoruiDe production lines integrate over 80% automation, enabling 3–5 operators to manage operations including container placement, filling, capping, labeling, and quality inspection. Automation reduces variability associated with manual handling while supporting consistent

product quality and high throughput. The modular design of the production system allows manufacturers to configure equipment according to facility layout, production capacity, and specific product requirements. Multi-shift, continuous operation is supported, ensuring alignment with large-scale manufacturing needs.

Automation further enables real-time monitoring of production metrics, including fill volume, viscosity handling, station alignment, and machine performance. This data-driven approach helps identify trends, prevent potential defects, and optimize production parameters over time. By standardizing repetitive processes and integrating monitoring capabilities, automated production supports both operational efficiency and quality assurance.

### Global Service Network for Continuous Operation

HaoruiDe maintains a global service network with technical personnel who possess extensive experience in equipment maintenance and operational troubleshooting. On-site and remote support is provided to ensure that systems maintain peak performance throughout the equipment lifecycle. The company's R&D team, with over ten years of specialized experience, ensures that technology updates, process improvements, and product innovations are continually integrated into existing equipment. This global support infrastructure is critical for international clients, enabling consistent manufacturing results across geographically diverse production sites.

By combining technical expertise, automated precision, and service continuity, HaoruiDe helps manufacturers address production challenges related to multi-shade products, high-viscosity formulas, and advanced texture requirements. Such capabilities support the scalability of cosmetic operations while maintaining product consistency and compliance with quality standards.

### Industry Context and Strategic Relevance

The cosmetic manufacturing sector continues to evolve, driven by increasing demand for consistency, efficiency, and innovative product design. Automation technologies, particularly in filling, capping, and labeling processes, contribute to improved quality control, faster production cycles, and reduced operational risk. Companies that integrate modular and flexible systems can respond to changes in consumer preference, regulatory shifts, and market trends more effectively.

HaoruiDe's systems reflect these priorities through precision engineering, multi-color capabilities, high-viscosity adaptability, and modular automation. By enabling scalable, replicable processes, manufacturers can maintain consistent product performance while exploring new formulations and aesthetic designs. Such solutions provide measurable value in both local and international markets, supporting long-term operational resilience.

### Conclusion

As the beauty industry continues to emphasize quality consistency, production efficiency, and product innovation, automation systems are increasingly integral to manufacturing strategies. HaoruiDe combines precision filling, high-viscosity adaptability, multi-color functionality, and modular automation to support advanced BB cream production and other cosmetic

manufacturing applications. The company's solutions allow manufacturers to respond effectively to evolving market demands while maintaining consistent product quality. More information about HaoruiDe and its automated cosmetic production solutions is available at <https://www.hrdprecisiontech.com/>.

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