

KLINGHAMMER
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BERTIL OHLSSON
LARSEN



130
YEARS
1894 - 2024

SFF

HIGHSPEED PRODUCTION
OF ASYMMETRIC SHAPES

SFF
SFF
SFF



Benchmark in asymmetric shapes



Gain a competitive advantage

Uniquely shaped cans help you approach new customers and grow your business.

SFF – Stretch Forming Fast

Introducing the new Klinghammer SFF – the next generation in asymmetrically shaped can production.

The Klinghammer SFF (Stretch Forming Fast) is a completely new machine platform, engineered specifically for the high-speed manufacture of asymmetrically shaped cans.

What sets the SFF apart is its unmatched performance: production speeds of 300+ cans per minute while maintaining absolute positional accuracy. This level of precision at such high output has never before been achieved in the market.

Asymmetrically shaped cans demand the exact alignment between the printed, unformed can body and the final shaped geometry. The decoration must be positioned perfectly before forming, ensuring that design and shape integrate perfectly. Until now, this complex process

could not be realised at mass-production volumes. Conventional systems were limited to rotationally symmetrical expansions, significantly restricting creative and branding possibilities.

The Klinghammer SFF eliminates these limitations and establishes a new industry benchmark for high-speed production of asymmetrically shaped cans.

For our customers and their brands, SFF presents a game-changing opportunity. Beyond simple colour differentiation, brands can now create distinctive, proprietary can shapes to elevate their visual identity. Shape and decoration work together as a single brand statement.

The result: a truly unique can design, enhanced impact at the point of sale, and a measurable increase in brand recognition.

Klinghammer SFF Shaping the future of can design

Technical specifications

- Asymmetric shapes
- Up to 300+ cpm
- Diameters 90 to 130 mm
- Heights 100 to 200 mm
- Round and non-round shapes
- Expansion over full height
- High orientation accuracy
- Toolings actuated via mechanical cam with no hydraulics needed
- Different shapes and toolings without change of cam
- Quick exchange of toolings

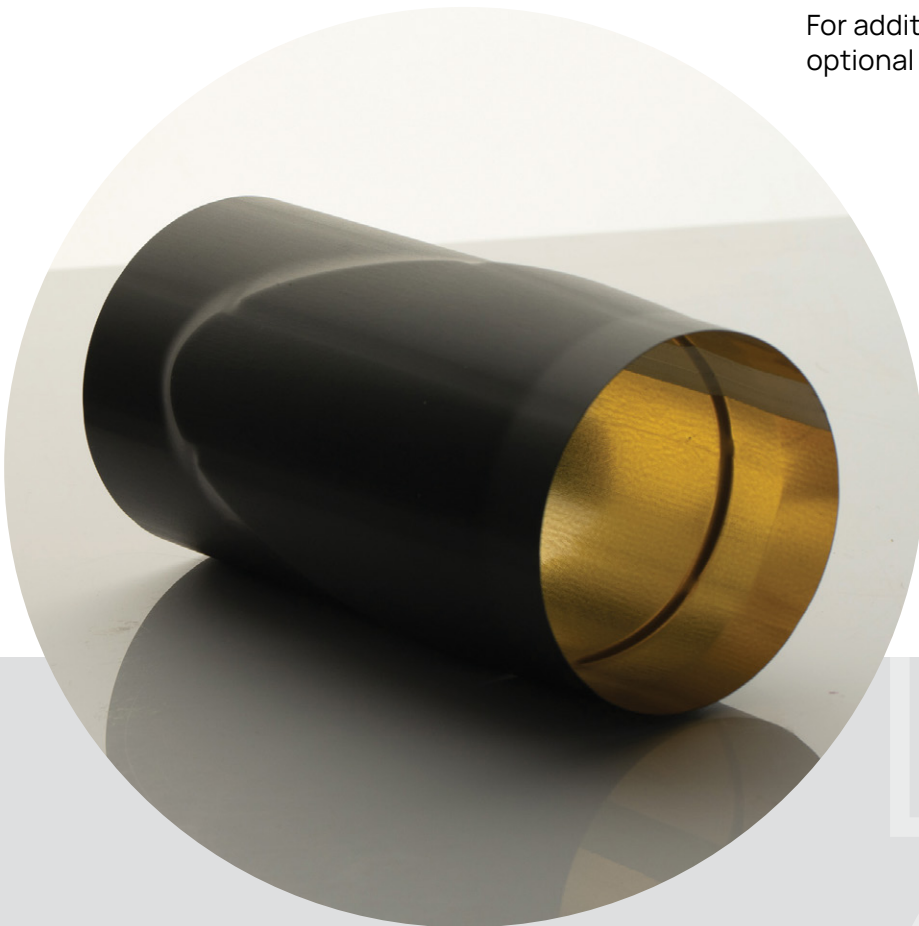
Next-level orientation stations

Asymmetrically shaped cans unlock exceptional branding potential by combining distinctive 3D contours with precisely aligned decoration. Yet achieving a perfect match between shape and design requires the exact orientation of the decorated welded body before shaping; a complex task that, until now, could not be achieved at true mass-production speeds.

The Klinghammer SFF features a completely re-designed orientation system. Each station receives the welded can body, aligns it with absolute precision, and securely maintains its position throughout the expansion process.

As a key innovation of the SFF, this orientation technology guarantees the perfect alignment between asymmetric shape and decoration, even at production speeds exceeding 300 cans per minute.

For additional quality control an optional camera system can be fitted.



Klinghammer SFF –
distinctive packaging
design and unrivalled
production efficiency



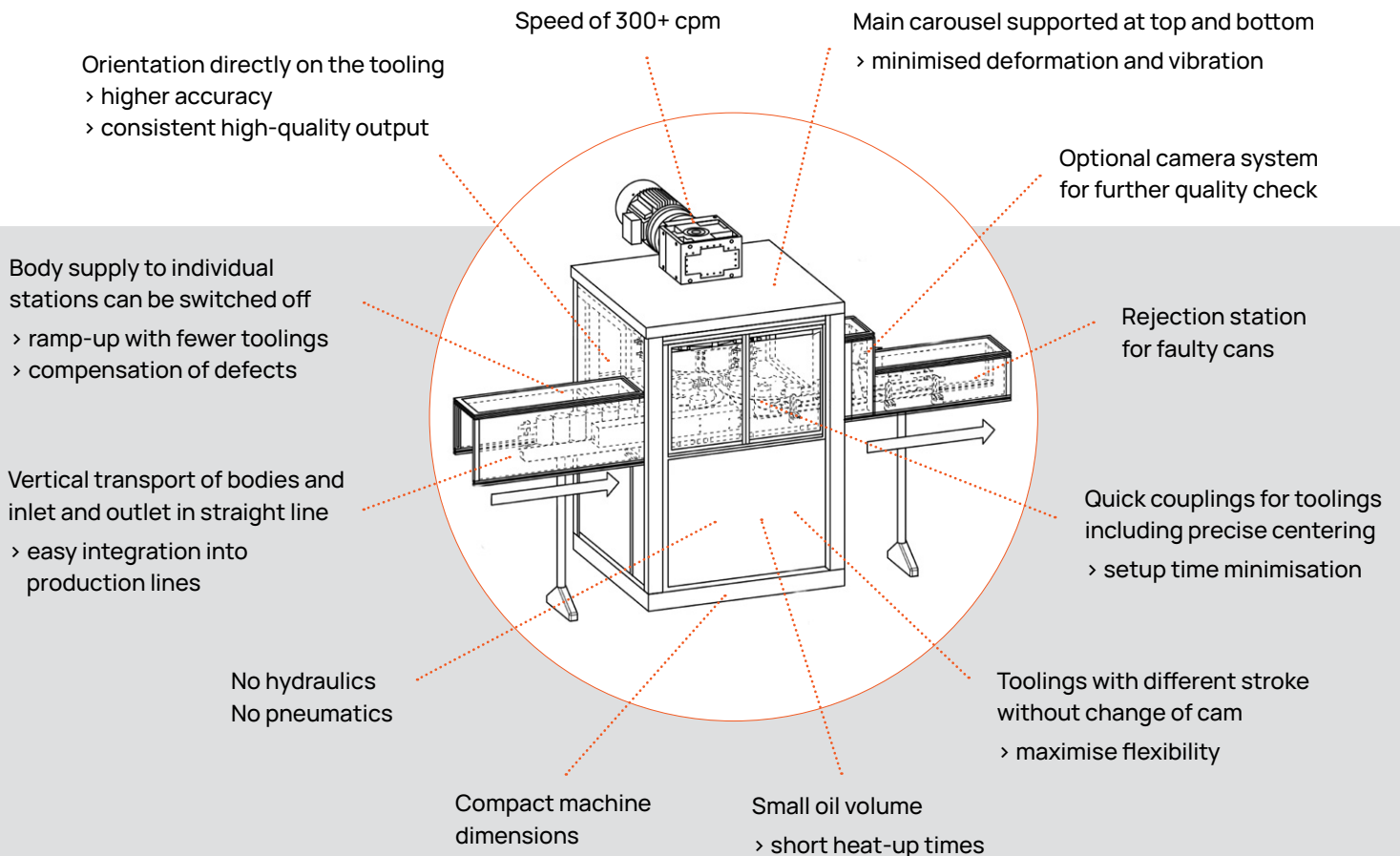
Precision meets Production Performance

Unlocking a wide world of shapes

Maximum creative freedom starts with maximum shape flexibility. Thanks to its advanced machine design, particularly the innovative orientation stations, the SFF enables an exceptional variety of can shapes. From classic round, non-round to nearly rectangular shapes, the possibilities are extensive. Shapes can be concave or convex, expanded only in the middle or at the ends, or across the full height of the body.

The new Klinghammer SFF is designed as a rotary machine with several shaping toolings in a main carousel. In combination with our newly developed orientation stations, the SFF ensures running speeds of 300+ cpm.

SFF – Stretch Forming Fast



Unmatched set-up speed and flexibility

In conventional production systems, different can shapes require different toolings, and often different stroke lengths. On cam-controlled machines, a new shape with different tooling typically means replacing the cam to match the new stroke. This process is time-consuming, complex, and limits flexibility. The new Klinghammer SFF eliminates this constraint. Its innovative mechanism allows toolings for various shapes and strokes to be mounted without changing the cam.

Result: faster changeovers, simplified setup, and maximum flexibility.

Quick exchange of toolings

The Klinghammer SFF offers advanced quick couplings that enable fast and effortless release and mounting of shaping tools. Thanks to their precision-engineered design, these couplings ensure exact positioning every time – eliminating the need for adjustments, e.g. after tool changes for maintenance purposes.

The results are: reduced downtime, simplified handling, and consistently high production accuracy.

Sustainability and cost-efficiency

The new SFF features only electromotive drives and mechanical drive trains – no hydraulics and no pneumatics. The absence of hydraulic systems is a major advantage, particularly in food can production, ensuring a clean and contamination-free environment. At the same time, the purely electric design enables energy-efficient and cost-effective operation.

In addition, a smart program feature allows welded bodies to be fed only to selected tooling stations. This means customers can begin production with just a portion of the main carousel equipped e.g. half the stations – reducing initial investment during the ramp-up phase of a new product.



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Thanks to the skills of our engineers, the exceptional quality of our materials and components, uncompromising manufacturing precision, and rigorous quality control, Klinghammer Group has earned a global reputation for reliable, long-lasting can-making machines. Our comprehensive support, responsive service, and the dependable supply of original spare parts ensure that each Klinghammer, Bertil Ohlsson and Larsen machine delivers maximum productivity and reliable performance for many years to come.

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