

Production complexity significantly reduced with **EMHART** tong systems

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As global demand for glass containers accelerates, manufacturers face mounting pressure to increase capacity, improve efficiency, and maintain uncompromising quality. The industry is rapidly shifting toward high-performance Triple Gob (TG) and Quad Gob (QG) production, with forming machines now offering up to 12 TG/QG sections and tandem configurations reaching as many as 20 sections. These configurations deliver exceptional throughput, but they also push ware handling speeds to new limits. As a result, maintaining stable pack rates and ensuring flawless transfer -from push-out to lehr loading- has become increasingly complex. To meet these challenges, producers are seeking solutions that reduce operational complexity without compromising performance. Although dual-row concepts are in use, they come with limitations regarding the firing order as well as challenges during further processing.

SMARTER SPACING, STRONGER PERFORMANCE

The Variable Center Distance (VCD) Tong Head offers a different approach. By reducing con-

tainer spacing during the take-out sequence, it lowers belt advance and improves overall ware stability. The result is enhanced handling quality, increased efficiency, and more consistent pack rates across high-speed production environments. This capability is particularly valuable in modern high-output setups, where even small improvements in spacing

and timing can significantly influence line performance.

ENGINEERING THAT ADAPTS IN REAL TIME

At the core of the VCD Tong Head is a precision-engineered mechanism based on a synchronized pinion and lever system. This system repositions movable sliders con-



Rising production speeds are reshaping ware handling requirements across the glass industry. Addressing precisely that need, the Variable Center Distance Tong Head enhances stability, reduces belt advance and improves pack rates. Widely adopted in high-output environments, this Bucher EMHART technology supports efficient, reliable operations while simplifying increasingly complex production demands.



These features underscore the following operational advantages:

- Modular, adjustable bottle spacing aligned with FlexPusher finger configurations
- Slower, more controlled push-out motion
- Precise container release into pusher fingers
- Reduced conveyor belt speed due to tighter spacing
- Long-lasting slider bearing design for improved positioning
- Modular construction with identical wearing parts for easier maintenance

These features translate into tangible benefits, including improved ware handling, higher

connected by a tie bar, enabling seamless adjustment from cavity center distance to optimized spacing on the dead plate. Operators can quickly adapt settings based on article diameter by repositioning or adjusting the length of the tie bar. A defined range of spacing configurations supports this flexibility, ensuring compatibility across multiple production requirements.

DESIGNED FOR DURABILITY AND EFFICIENCY

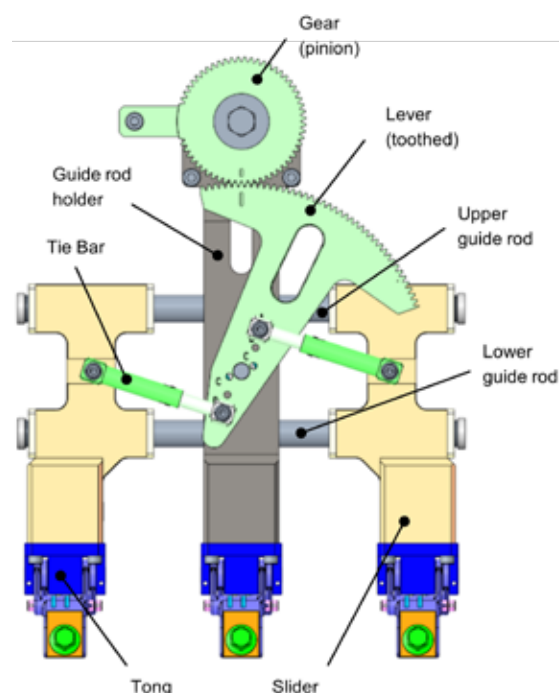
The latest generation of VCD Tong Heads builds on proven field performance with a design tailored for modern, high-speed production. Enhancements focus on robustness, reduced downtime, and extended maintenance intervals - delivering measurable value throughout daily operations. The features and ben-

AVAILABLE FOR

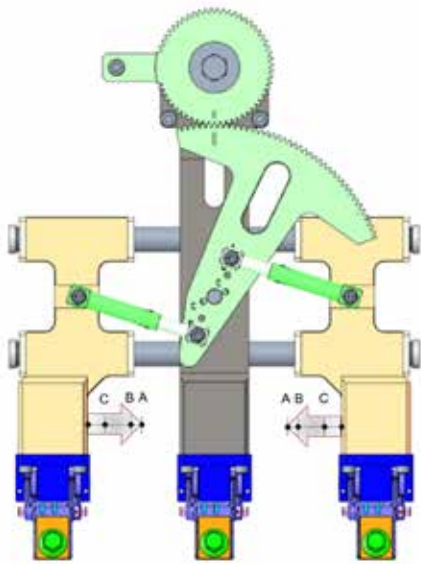
- NIS TG 5"
- AIS TG 4 1/4"
- AIS QG 3"
- IS TG 85 mm

WARE SPACINGS ON DEAD PLATE

- 3 - 3/4" / 4 - 7/32" / 4 - 11/16"
- 2 - 1/3" / 2 - 5/8" / 2 - 11/12" / 3 - 1/2"
- 2" / 2 - 1/4" / 2 - 1/2"
- 2" / 2 - 1/4" / 3"



VCD TONG HEAD	WARE SPACING FORMING MACHINE	MOUNTING POSITION ON LEVER	WARE SPACING DEAD PLATE	CONVEYOR BELT SPEED REDUCTION	ARTICLE DIAMETER RANGE
NIS TG	5"	A	3-3/4" (95.3 mm)	25%	61-66 mm
		B	4-7/32" (101.8 mm)	20%	66-71 mm
		C	4-11/16" (119.1 mm)	6%	71-81 mm



pack percentages, reduced losses and lower operating costs.

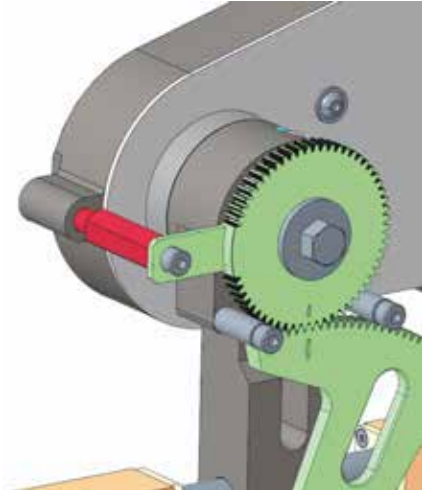
INTEGRATION WITHOUT COMPROMISE

The VCD Tong Head is fully compatible with standard take-out systems and integrates seamlessly with existing FlexPusher finger portfolios. It is supported

by FlexIS forming control systems, accommodating all relevant belt advance configurations. For optimal performance, the system is recommended in combination with Servo Electric Take-Out (SETO) and Servo Electric Invert (SEI) mechanisms, ensuring smooth and reliable operation at high speeds.

A PROVEN SOLUTION FOR HIGH-SPEED PRODUCTION

As production volumes continue to rise, the adoption of VCD technology has expanded significantly. Its growing presence in high-speed applications reflects increasing industry recognition of its ability to enhance ware handling while simplifying operational challenges. Ongoing development efforts ensure that the system continues to evolve in line with market demands, supporting manufacturers in achieving higher efficiency and consistent quality in increasingly demanding production environments. ■

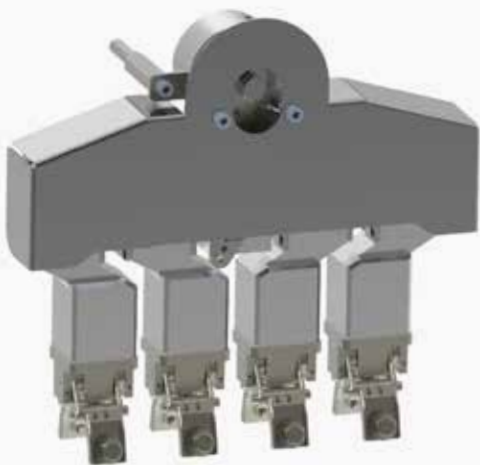


BUCHER
emhart glass

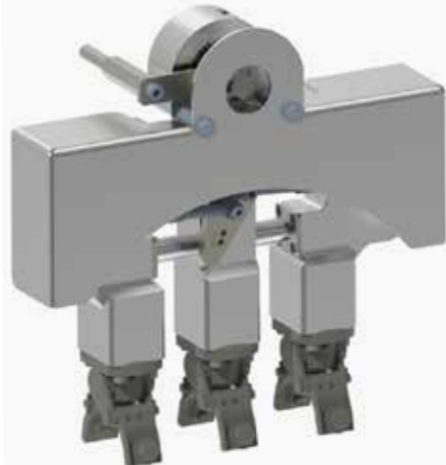
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AIS QG 3"



IS TG 85mm



NIS TG 5"