



THE BELVAC



Key Benefits

THE BELVAC necker marks a new generation of smart machinery. Designed to optimize production throughput, container quality, and operational expenses, while reducing associated maintenance and downtime, this state of the art necker knows no parallel. The intelligent manufacturing system and the high speed selective sorter on THE BELVAC necker is capable of performing dynamic quality control and sampling, intelligent troubleshooting of upstream problems, and developing predictive maintenance programs.

THE BELVAC will set a new standard for speed reaching 3600 containers per minute. The increase in speed as well as the increase in container quality is the result of precision design incorporating full piloted tooling and a larger working arc. The cantilever design also provides unprecedented ease of access. The new turret is fully piloted with a 50.3 millimeter die stroke and a 270 degree working duration allowing for lower ram accelerations and reducing the necking stages from 14 to 12 for 211 to 202 neck reductions.

THE BELVAC —
The only necker in the industry proven capable of 3,600 CPM Production speeds. THE BELVAC provides the highest return on your investment.

Features

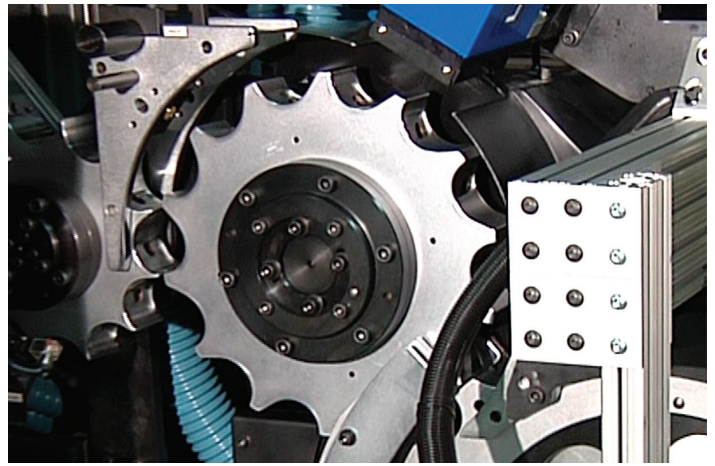
- All Air Passages are Internal—No Exposed Air Lines
- High Speed Dual Ram Assemblies with Linear Slides & High Performance Bushings
- Quick Change Height & Diameter Adjustment
- Significant Grease Reduction
- Advantage of PC Based Electrical Controls
- Enhanced Face Seal Manifold for Reduced Air Consumption
- Pocket-to-Pocket Correlation
- Operator Side Manual Rotation Feature can be at Any Turret
- Create the Best Quality Can
- Produce a Lower Cost Can
- Produce Higher Output with Lower Cost of Maintenance
- Improve Machinery Uptime
- Create Better Access for Service & Provide Longer Component Life
- Improved Turret Visibility thru Clear Panels
- Less Than Half the Weight of 595-SK Steel Guards
- New Integral Can Neck Lubricator



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The revolutionary design concept of THE BELVAC has a common modular base and any module can have the drive motor gearbox on it. THE BELVAC has a main drive with a flange mounted gear reducer that eliminates pulleys, belts, and guards. The gear ratios are optimized for a wide range of speed.

Infeed is through a multi-feed starwheel that has a vertical infeed chute. The new integral can neck lubricator has a recessed open end guide that insures no lube will get into can. The lubricator is maintenance free with no moving parts. Additionally, quick change features provide for ease of operation.



Technical Specifications	THE BELVAC (Quick Change)	
Can Body Size Range	202 (52.8mm) to 211 (66.2mm)	
Can Neck Size Range	200 to 209	
Maximum Can Height	7.51" (190mm)	
Minimum Can Height	3.30" (84mm)	
Number of Pockets per Working Turret	12	
Number of Pockets per Transfer Turret	20	
Pocket-to-Pocket Integrity	Yes	
"Active" Pockets (Linear)	12	
Shaped Can Option Capable	Not Applicable	
"Active" Pockets (Recirculation)	Not Applicable	
Rated Speed (CPM) (Linear Machine)	3600 CPM (300 RPM Max Turret Speed)	
<i>Required Utilities</i>	<i>Pressure Requirements</i>	<i>Flow Requirements</i>
Dual Compressor Setup	<ul style="list-style-type: none"> • 50 psig (3.4 BAR) Process Air • 80 psig (5.5 BAR) Brake Circuit 	<ul style="list-style-type: none"> • 100 SCFM (48 SLPS) per Necking Turret • 40 SCFM (19 SLPS) per Flanger or Light Tester Turret • 50 SCFM (24 SLPS) per Reformer or Reprofiller Turret
Single Compressor Setup	<ul style="list-style-type: none"> • 80 psig (5.5BAR) 	<ul style="list-style-type: none"> • 125 CFM Compressed Air (59 LPS) per Neck or Expander Turret • 40 CFM Compressed Air (19 LPS) for Pumps, etc.
Inspection Blow-Off (L/V)	<ul style="list-style-type: none"> • 80 psig (5.5BAR) minimum 	<ul style="list-style-type: none"> • 100 CFM Compressed Air (24 L/s) per Blow-Off
Machine Overall Dimensions	Length	[43" (1092mm) + 29.2"(741.7mm) x # Modules]
	Width	126.6" (3216mm)
	Height	104.3" (2649mm)

Technical Specifications	THE BELVAC (Quick Change)
Maximum Neck Shoulder Dimension	Approx. 0.81" (20.6mm)
Maximum Neck Length	0.750" (19.05mm)
Minimum Neck Length	0.23" (5.8mm)
Effective Push Cam Stroke (Less BIS) Max	1.977" (50.2mm) « New RDC Profile
KO Cam Stroke Max	1.26" (32mm) « New RDC Profile
Cam Dynamics	Reduced Dynamics Cam (RDC)
Cam Style	Matched Velocity
Cam Working Arc	270 degrees
Diameter Change Capability	One QC parts kit per can diameter
Height Change Capability	"Quick Change"
Ram Assembly Style	Precision Linear Bearings with Dual Cam Followers
Main Shaft Style	Horizontal, Cantilevered
Guard Style	Aluminum Extruded Modular Bi-Fold
Main Drive Motor and Gearbox	Single or Multiple Drive: Configuration Dependent
Gearbox	Horizontal Parallel Shaft, Helical Gear
Drive Gearing	Spur Gear, Inline Steel Oil Bath Lubed
Transfer Shaft Assembly	Quick Change Modular
Blowers	Floor Standing
Infeed Star Wheel	Quick Change Modular
Waxer	Standard Rollerless hot wax or oil
Transfer Starwheel	Quick Change Modular
Discharge Starwheel	Quick Change Modular
Face Seal Manifold	Modular FSM HyComp Lining
Main Drive Side Bearing	Fixed Tapered Roller Bearing
Pusher Side Bearing	N/A



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