



Born for Efficient and Sustainable Cap Production

# Crownjet High-Speed Cap Injection Molding Machine



# Why Crownjet?



## The Decisive Edge for Your Production

### Extreme Speed Enter the 4-Second Club



We've shattered previous speed barriers. Through patented innovations like **Synchronous Ejection** and an optimized melt-flow process, Crownjet achieves stable cycle times of **under 4 seconds**. This revolutionary speed allows a 32-cavity line to produce over 28,000 caps per hour, maximizing your throughput and accelerating your ROI.

### Uncompromised Stability & Quality Precision in Every Cap



Designed for 24/7 reliability, Crownjet guarantees exceptional product consistency even at extreme speeds. This is achieved through a **robust machine platform**, high-precision molds with superior cooling, and a **"full data traceability"** system for every component. The result is unwavering quality and a premium finish, cap after cap.

### Unmatched Energy Efficiency Drive Down Your Costs



Crownjet is engineered for radical energy savings. The combination of an advanced **electric drive**, an innovative **far-infrared nano-heating system** slashes unit energy consumption. This results in a remarkable **0.798 kWh/kg**, a massive reduction from the industry average that directly boosts your profitability.

### Integrated Turnkey Solutions



We deliver complete bottle cap production lines, built upon our deep understanding of cap injection molding. This specialized expertise is our commitment to ensuring your entire system is optimized for performance, guaranteeing your success.

## Staying Ahead in a Fast-Moving Market

The global beverage and packaging market is undergoing an **unprecedented transformation**. Increasing **cost pressures**, the urgent need for **sustainability**, and consumer expectations for diverse products are placing greater demands on cap production. **Lightweighting, shorter cycle times, absolute production stability, and lower unit costs** are no longer optional—they are the **cornerstones of competitiveness**.

In the face of these challenges, you need a **partner** who not only keeps pace but also **leads you into the future**. This is why **Crownjet** was created. We **specialize in the field of cap production** and deeply understand your every challenge. We believe that **outstanding production equipment** is the key to your success. Therefore, we have poured all our knowledge and passion into creating this **efficient, reliable, and highly cost-effective** cap production solution for you.



# Broad Applications, Infinite Possibilities



## Application Areas Include

### Water, Soda & CSD Caps

Focusing on lightweight design and high-speed production, minimizing cap weight and cost while ensuring a perfect seal.

### Edible Oil & Condiment Caps

Capable of integrating complex structures like flip-tops and tamper-evident bands in a single molding step, enhancing product value and user experience.

### Pharmaceutical & Healthcare Caps

Produced in a clean environment to meet medical-grade precision and hygiene standards, with options for safety features like child-resistant closures.

### Juice & Tea Caps (Heat-Resistant/Hot-Fill)

Utilizing special material processing to ensure dimensional stability and reliable performance under hot-fill conditions.

### Cosmetic & Personal Care Caps

Perfectly handles high-gloss surfaces and intricate shapes to meet the stringent aesthetic demands of cosmetics and toiletries.

## Mastering Complexity: Advanced Cap Production with CJ-Series

With **exceptional precision and flexibility**, the **Crownjet CJ-Series** is not only a powerful tool for producing standard caps but also **excels at handling complex, delicate, and specialized cap designs**. We provide **tailored solutions** for various industries to ensure your products **stand out on the shelf**

# System Integration & Service

## System Integration: Complete Production Line Solutions

A high-performance machine is the start of success, but a seamlessly integrated system is the guarantee. We do more than just provide industry-leading injection molding machines; we act as your trusted partner to plan and deliver a complete, turnkey cap production system tailored for your success.

### Our System Integration Capabilities Include:

- **High-Quality Cap Molds:** We provide proven, high-quality cap molds that are perfectly matched with the Crownjet machine to ensure optimal compatibility and long-life operation.
- **Complete Downstream Auxiliaries:** We can integrate a full suite of downstream equipment, including post-mold cooling, conveyors, and automated boxing systems, creating a truly "from-granule-to-box" automated production line.
- **Intelligent Vision Monitoring (Optional):** We offer an optional, AI-based vision system to monitor the production process, ensuring operational safety and stability by preventing potential risks in real-time.

## Global Service & Support

Choosing Crownjet means choosing a reliable partner that covers the entire product lifecycle. Our professional service team is always ready to respond to your needs, ensuring your production line always operates at its peak performance.

### Our Service Commitment:

- **On-site Startup & Training:** Our expert team handles on-site installation, commissioning, and provides comprehensive training for your staff, ensuring a fast and seamless production launch.
- **Rapid Response:** Our service network ensures prompt technical support and the timely delivery of spare parts..
- **Preventive Maintenance:** We provide customized preventive maintenance plans to proactively identify and resolve potential issues, maximizing uptime.
- **Process Optimization Support:** Our team of application engineers will work with you to continuously optimize your production process, helping you constantly reduce costs and improve quality.



# Dynamic Range for Diverse Needs

MODEL	UNIT	CJ32-H	CJ32-U	CJ48-H	CJ48-U	CJ72-H	CJ72-U
<b>INJECTION UNIT</b>							
		<b>B</b>		<b>B</b>		<b>B</b>	
Screw L/D Ratio	L/D	24		24		24	
Screw Diameter	mm	50		60		60	
Injection pressure	Mpa	176		178		178	
Injection volume (theoretical)	cm <sup>3</sup>	422		749		749	
Injection weight (PS)	g	384		682		682	
	oz	13.5		24.0		24.0	
Injection weight (HDPE)	g	300		532		532	
	oz	10.6		18.8		18.8	
Injection Seepd	mm/s	190	300	205	285	205	285
Screw Seepd	r/Min	300					
<b>CLAMPING UNIT</b>							
Clamping Force	KN	2400		3200		4200	
Clamping Stroke	mm	500		610		715	
Max/min Thickness of Mould	mm	200-590		220-650		300-760	
Space Between Tie Bars(HxV)	mm	580X530		670X630		780X730	
Ejector Stroke	mm	140		150		200	
Ejector Force	KN	71		71		113	
<b>OTHERS</b>							
Pump motor power(Servo)	KW	31.1	20.5+31.1	60.5	31.1+50.7	31.1+31.1	31.1+50.7
Charge Pump motor power(Servo)	KW	37		37		37	
Heater power	KW	19.5		27.8		27.8	
Oil tank	L	350		550		550	
System Pressure	Mpa	17.5		17.5		17.5	
Machine Size(LxWxH)	m	6.2X1.65X2.2		7X1.8x2.35		8.3X1.85x2.45	
Machine Weight	T	7.4	7.6	10.5	10.8	15.8	15.9



## Crownjet CJ-Series High-Speed Injection Molding Machine for Caps

The parameters below are examples. We can provide customized configurations based on your specific needs



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