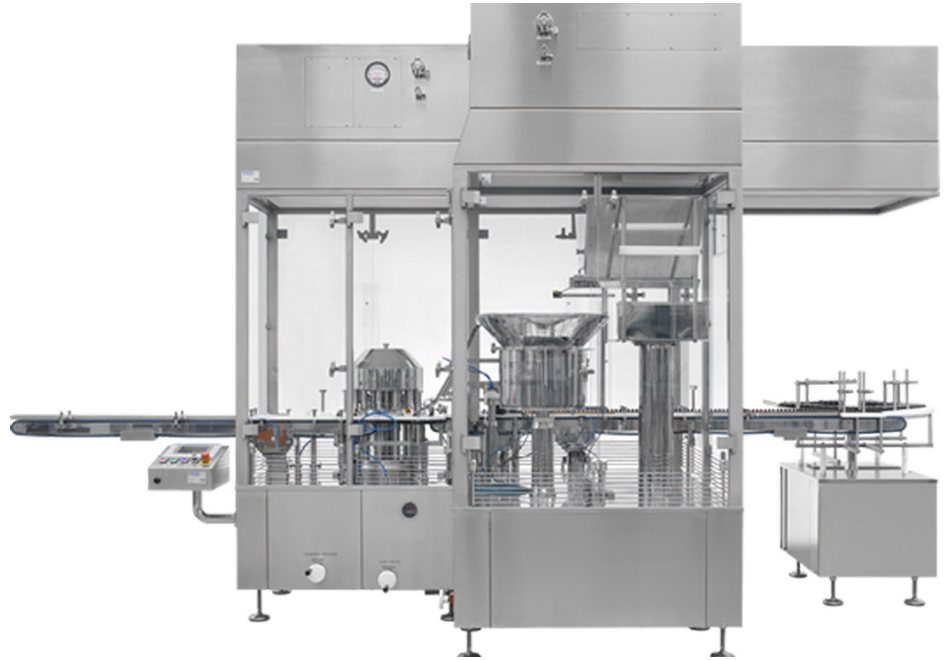


## VCM SERIES CAPPING SYSTEMS [VIALS, CARTRIDGES]



**STERILINE VIAL CAPPING SYSTEMS (VCM SERIES):** Are rotary style cappers which process vials or cartridges from 2ml to 200ml and with production speeds up to 400 vials or cartridges per minute. The VCM Series cappers can be configured in multiple ways, including tray on/tray off, belt feed on/ belt feed off, or any combination thereof. In addition, the Steriline VCM capping system can be configured for aluminium vial seals, cartridge combi-seals, or screw caps (used for ophthalmic products). The VCM can be equipped with a LFU, an open

R.A.B.S, Closed R.A.B.S., or a full isolator. For models VCM50 and VCM100, vials or cartridges are loaded onto the conveyor belt from either trays or the filler (depending on the capper configuration) and aluminium caps are loaded into a conical vibrating bowl. The caps exit the bowl in a single or dual lane chute. From the cap feed chute a cap is applied to each stoppered vial or cartridge, then the sealing head lowers and makes contact with the skirt sealing the lower edge of the cap skirt (with rotating blade).

Once sealing is performed the blade retracts and the sealing head returns to its home position. For models VCM200, VCM300, + VCM400, an infeed conveyor belt presents the containers to an infeed scroll. The infeed scroll transfers vials or cartridges to the infeed starwheel. A vibrating bowl contains the aluminium caps or combi-seals. The vertical chute transports the cap from the feeder bowl to the cap dispensing point and on to the vial or cartridge. Each cap sealing unit consists of a compression assembly and a sealing roller.

ST VCM 8 17



**AWS BIO-PHARMA TECHNOLOGIES**

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Each vial or cartridge is positioned under a cap sealing unit, then the vial assembly is raised for compression, then the sealing roller approaches the neck of raised and rotating vial assembly performing the sealing of the aluminium cap. The sealed vials or cartridges are then removed by the outfeed starwheel. The outfeed starwheel transfers the sealed vials or cartridges onto the outfeed conveyor belt. of raised and rotating vial assembly performing the sealing of the aluminium cap. The sealed vials or cartridges are then removed by the outfeed starwheel. The outfeed starwheel transfers the sealed vials or cartridges onto the outfeed conveyor belt.

**OTHER AVAILABLE OPTIONS INCLUDE:**

- *Tray-off device options*
- *Raised stopper detection*
- *Extended buffering for caps*
- *Automatic seal pressure control with rejection*
- *Available with LFU, RABS (closed or open) or an ISOLATOR*
- *Additional container format processing (Cartridges, Screw capping)*
- *IQ/OQ, 21CFR Part11 and other supporting validation documentation is available*

**THE VCM SERIES INCLUDES ALL OF THESE STANDARD CONTROL FEATURES**

- *No vial/cartridge - No cap*
- *No cap – Rejection*
- *There is a cap presence sensor immediately after the capping unit. Vials without a cap are rejected and the capper stops after consecutive (settable) number of rejects*

Steriline capping systems can be fully integrated with our other Parenteral filling systems, exterior glassware washers for a complete solution as well as supplied as stand-alone cappers.

**(DEPENDING ON THE MODEL), AN INTERMITTENT OR CONTINUOUS MOTION CAPPER IS EQUIPPED WITH:**

- *Laminar air flow hood*
- *Front lamp*
- *CIP/SIP trolley*
- *Desktop printer to print CIP/SIP records on paper*
- *Vacuum creating device (BFIL A)*
- *Inert Gas Injection system (BFIL A)*
- *Integrated Conveyor Belt*
- *Trolleys or Side Holders for empty bags*

**VCM SERIES CAPPING SYSTEM TECHNICAL DATA**

MODEL	STYLE	1 > 5ml [vpm]	10 > 15ml [vpm]	20>30ml [vpm]	50ml [vpm]	100ml [vpm]	200ml [vpm]
VCM50	I	50	40	30	12	10	NA
VCM100	I	100	100	65	21	17	NA
VCM200	C	200	200	130	42	34	20
VCM300	C	300	300	195	63	51	30
VCM400	C	400	400	260	84	68	40

*The indicated performance data shown in the table above is the maximum system performance, actual output depends on: Product properties and glassware.*

**All Steriline processing systems are in compliance with cGMP, GAMP and 21CFR Part11 requirements. Visit our web site at [www.sterilineusa.net](http://www.sterilineusa.net) for more information**



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ST VCM 8 17