



# PMW Capping machines

PMW Engineering



From semi- to fully automatic cap application equipment with capacities beyond 7.000 units per hour.

[WWW.pmw-engineering.com](http://WWW.pmw-engineering.com)

# Capping machines

PMW Engineering A/S are specialists in container handling for bottles, cups and containers.

PMW Engineering has more than 30 years of experience with designing and manufacturing machines that put caps and lids on containers.

Our inventory ranges from the hand operated and semi-automatic to the fully automatic capping machines capable of closing several thousand containers every hour. From machines that screw on caps, presses on lids or does both.

Between our versatile assortment of products and our custom-made format parts, specifically designed to suit your particular cap, we are certain to find whichever solution suits you best.



# PMW CapOMatic

## Cap press-on machine – for smaller production lines

PMW CapOMatic is simple to use press capping machine. A container, with a press-on lid loosely applied, is placed on the accompanying conveyor belt. Then it is transported beneath the pressing mechanism, to have its cap stamped firmly in place.

### Technical specification

#### Features:

- Attaches on a height adjustable platform.
- Built-in conveyor with a width of 140 mm and a length of 325/625 mm.
- Easy operation with only three buttons, on, off and emergency stop.
- Power supply plugs directly into standard sockets meaning, no main disconnect switch required.
- Counter register under the crank handle.
- Transparent thermoplastic guard that, upon being tipped over, switches off the power supply.
- Safety shielding can be added to cover gearmotors, if necessary.



# PMW RotoCap M

## Hand operated screw capping tool

PMW RotoCap M consists of an air powered torque screwdriver, suspended with a wire rope from a steel frame. Select the desired level of torque to be applied to the cap. The screw cap is manually placed on the mouth of the intended container. The suspended screwdriver is pulled down by the operator onto the cap, where it automatically begins tightening the cap upon contact. The capping head is pressed against the cap until the preselected level of application torque is reached.

## Technical specification

### Features:

- Can be fastened to walls, ceilings, support brackets or to the ground. Works well with containers transported on a conveyor system or standing still on a table or other platform.
- The screwdriver comes delivered with a detachable capping head, that can be ordered custommade to fit a particular cap.
- Preselect a desired amount of application torque on the cap, to ensure caps are ideally and uniformly applied.



## Easy to operate

- Automatic tightening of caps with impact activated screwdriver.
- Whenever pressure is applied to the capping head, the air supply that powers the screwdriver is activated.
- Screw on and tighten caps with one simple downward hand motion.
- Automatic shutt-off with torque control.
- When the preselected amount of torque has been applied to the cap, the screwdriver automatically stops tightening the cap further.



# PMW RotoCap SA

## Semi-automatic screw capping machine for all types of caps

PMW RotoCap SA is a semiautomatic cap tightening machine for fitting on a conveyor. The machine gives a large physical relief for the operator and is often recommended by the Danish Working Environment Service, where manual cap tightening takes place.

### Technical specification

#### Features:

- Sturdy and cleaning friendly - Construction in stainless steel and synthetic material.
- Safety coverage with hinges and approved safety switches.
- Automatic start/stop of the machine through a photocell.
- Cap screwing head with exchangeable moveable jaws.
- Stop- and centring device of the container under screwing head.
- Capacity up to 1.700 units per hour, depending on cap type.
- Works with or without conveyor.
- Stainless control cabinet with start, stop, emergency stop and rotary potentiometer for adjustment of screw/holding time, as well as torque.

### Extra equipment

- Rotating product separator that secures and introduces containers to the machine one by one, while also giving opportunity for accumulation, for added convenience for the operator.
- PMW PacLine conveying system in stainless steel (alternatively, can be integrated with already existing conveying systems).



Technical data	
Output Capacity	1700 units/hour
Height	810 mm
Width	470 mm
Length	510 mm
Power connection	240 V 50 Hz + 0 + ground
Air connection	6 bars
Weight	40 kg

# PMW CupOn

## Fully automatic application of measuring cups – Output of 3900 uph

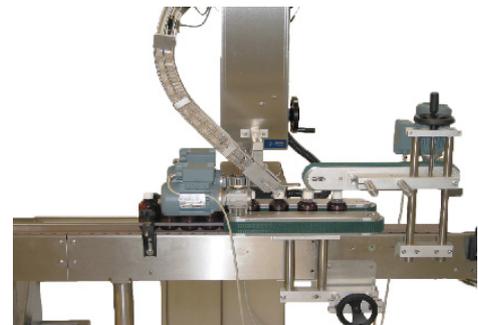
PMW CupOn is a fully automatic capping machine for the application of top caps, including measuring cups, on bottles and containers. PMW CupOn is developed in collaboration with clients in the pharmaceutical industry.

As capped containers are conveyed towards a cap applicator, two sets of side conveyors fasten the containers and move them past a diagonally positioned rail, where the containers drag a top cap with it as it is conveyed along to a top conveyor, pressing the top caps down on the containers as it conveys them.

### Technical specification

#### Features:

- Sturdy and cleaning friendly – Construction in welded stainless steel.
- 2 pcs. adjustable side grip conveyor belts, for fastening and transporting containers to the cap applicator.
- Height adjustable cap rail with conveyor belt and cap applicator.
- Output capacity: approx. 3900 units per hour.
- Air unit with intake varying between approx. 50 – 3000 L/hour. depending on usage.
- Safety coverage and approved safety switches.



### Standard equipment

- PMW CapSorter – Takes loose caps and neatly sort them before feeding them to the cap applicator. Can contain 3 – 5 litres of caps at a time, depending on cap type.
- PMW PacLine conveying system in stainless steel (alternatively, can be integrated with already existing conveying systems).

### Extra equipment

- PMW CapLift cap elevator for transporting unsorted caps into the PMW CapSorter.



# PMW CapMaster P1/P2

## Fully automatic cap press-on machine

PMW CapMaster P1 and P2 are fully automatic press capping machines. Caps chutes and container conveyors lead to a specially designed mill consisting of a set of stacked index wheels. Here caps and containers converge and are held in place by the index pockets, as the mill turn in direction of a piston that press on the caps.

**PMW CapMaster P1** comes with one cap chute, one container inlet, one cap applicator and a 12-pocket index mill for 4500 units/hour.

**PMW CapMaster P2** comes with two cap chutes, two container inlets, two cap applicators and a 16-pocket index mill for 7200 units/hour.

## Technical specification

### Features:

- Sturdy and cleaning friendly - Construction in stainless steel and grinded stainless plating.
- Compatible with most widely known and utilized cap types.
- Safety coverage with hinges and approved safety switches.
- Electrical height adjustment, that can be set to automatically adapt to the height of the packaging.
- Operated through HMI-panel at the front of the machine, in ergonomically correct position.

## Standard equipment

- PMW CapSorter – Takes loose caps and neatly sort them before feeding them to the cap applicator. Can contain 3 – 5 litres of caps at a time, depending on cap type.
- PMW PaLine conveying system in stainless steel (alternatively, can be integrated with already existing conveying systems).

## Extra equipment

- PMW CapLift cap elevator for transporting unsorted caps into the PMW CapSorter.
- Cap Control – A system that scan caps to ensure they are correctly applied to the packaging. If inadequacies are detected, the system automatically ejects the faulty container from the line.



# PMW CapMatic

## Fully automatic screw capping machine – Output of 2500 uph

PMW CapMatic is a fully automatic screw capping machine that uses curve guided mechanical movements to screw caps onto containers. A pneumatically driven tap transfer arm, with a round platform, moves between the cap chute and the capping head, carrying one cap at a time. The fully automatic, also pneumatically driven, capping head picks up the cap from the platform and screws it onto the container directly below it. All happening at great speeds in a smooth, continuous motion. With mechanical components and a stainless steel construction, PMW CapMatic is extraordinarily sturdy, reliable and easy to both clean and maintain.

## Technical specification

### Features:

- Construction in stainless steel.
- Curve guided mechanical movements.
- Sturdy and cleaning friendly.
- Safety coverage with adjustable lids and approved safety switches.
- Adjustable height with handwheel.
- HMI-panel at the front of the machine, in ergonomically correct position.
- Photocells placed at machine inlet and outlet for queue control.
- Curve controlled cap transfer arm.
- Fully automatic pneumatic screw capping head with movable jaws and adjustable torque control.

## Standard equipment

- PMW CapSorter – Takes loose caps and neatly sort them before feeding them to the cap applicator. Can contain 3 – 5 litres of caps at a time.
- PMW PaLine conveying system in stainless steel (alternatively, can be integrated with already existing conveying systems).
- Auger transport system, at the inlet of the machine, for accurate container positioning. Particularly suited for bottles and jugs.

## Extra equipment

- PMW CapLift cap elevator for transporting unsorted caps into the PMW CapSorter.



# PMW CapMaster 4.0

## Fully automatic screw/press-on capping machine - Output of 3000 uph

PMW CapMaster 4.0 is a fully automatic capping machine, capable of both screwing and pressing caps onto containers. The machine is designed to be able to perform its functions on caps and containers of different types, sizes and layouts, including snap-on caps. This high degree of versatility is thanks to its modular construction and high degree of recipe-controlled Servo-functions.

### Technical specification

#### Features:

- Sturdy and cleaning friendly – Construction in stainless steel and polymer.
- Safety coverage with adjustable lids and approved safety switches.
- Automatic start/stop function.
- HMI-panel at the front of the machine, in ergonomically correct position.
- Pick 'n' Place system for cap transfer.
- Capping head with movable jaws, adjustable speed and torque control (can be specially adapted to fit particular caps).
- Electric height adjustment.
- Recipe-controlled Servo-functions, for making adjustments and accommodating shifts in packaging.

### Standard equipment

- PMW CapSorter – Takes loose caps and neatly sort them before feeding them to the cap applicator. Can contain 3 – 5 litres of caps at a time.
- PMW PaLine conveying system in stainless steel (alternatively, can be integrated with already existing conveying systems).

### Extra equipment

- PMW CapLift cap elevator for transporting unsorted caps into the PMW CapSorter.
- Cap Control – A system that scan caps to ensure they are correctly applied to the packaging. If inadequacies are detected, the system automatically ejects the faulty container from the line.



# PMW CapMaster 5.0

## Fully automatic screw/press-on capping machine.

PMW CapMaster 5.0 is designed and crafted along the highest standards of the industry and put together with industrial components of the best quality.

PMW CapMaster 5.0 is made to extract the full potential of the newest advances in electrical linear- and rotational movement, to optimize movement patterns, precision, speeds, and power, adjusted to the requirements of the individual HMI recipe.

**Capacity:** +3000 units per. hour depending on the type, size or layout of container or cap.

PMW CapMaster 5.0 uses a custom format index wheel to guide the container through the process of applying, screwing, or pressing on the cap. The finished unit is transported back to the conveyor, for any subsequent processing.

The entire process takes place in a shielded area, where top and side covered lids are mounted with approved security switches.

As PMW CapMaster 5.0 is designed in modules, and with moving components and machine operations predominantly placed in the top, routine tasks, such as cleaning or shifting between sets of format parts, are made to be as swift and convenient as possible. All components are chosen with cleaning in mind, meaning the unit is designed to provide the best possible conditions for cleaning with water and foaming detergents.

### Changing packaging and recipes

PMW CapMaster 5.0 is highly versatile, designed to manage a wide variety of caps and containers, to be able to transition between productions quickly and effortlessly, and for process to require the minimal number of manual actions and swapping of format parts possible.

With the ability, through recipes, to automatically control and adjust horizontal and vertical movement, cap transport and point of delivery, PMW CapMaster 5.0 can automatically adjust its operation to perform cap screwing or pressing for containers and lids with a total height difference of up to 250 mm.

Through the HMI-panel, the machine operator can administer recipes and access instructions on the process of inserting the correct set of custom-made format parts, corresponding to a specific type of container and cap.



## Technical specification

### Features:

- Sturdy and cleaning friendly - construction in stainless steel and carbon fibre.
- Moving parts positioned to further optimize cleaning conditions.
- Safety coverage with adjustable lids and approved safety switches.
- Screw capping heads with movable jaws, adjustable speed, and torque control (can be specially adapted to fit caps).
- Pick 'n' Place system for cap transfer.
- Output capacity of more than 3.000 units per hour, depending on size or layout of containers and caps.
- HMI-recipe controlled Servo-functions, for adjusting and accommodating shifts in packaging.
- Recipe-controlled height adjustment.
- 9" HMI-panel at the front of the machine, in ergonomically correct position.

## Extra equipment

- PMW CapLift cap elevator for transporting unsorted caps into the PMW CapSorter.
- Cap Control – a system that scan caps to ensure they are correctly applied to the packaging. If inadequacies are detected, the system automatically ejects the faulty container from the line.
- Remote Access – a unit making it possible to access the PLC and HMI through either a SM-unit or a local internet connection.
- Collection and transfer of processing data – as a service, we can compile lists of information, such as production data, alarm lists, etc. This data can be sent to an external IP-address or through some other arrangement, depending on your wishes.

Technical data	
Height	2,4 m
Width	1,5 m
Lenght	1,2 m
Power connection	400/50/3 + ground
Compressed air inlet pressure	6 bars





---

## Our companies

### Jesma Weighing Solutions

Helsingørvej 18  
DK-7100 Vejle  
Tel: +45 75 72 11 00  
@: Jesma@jesma.dk

### PMW Engineering

Helsingørvej 18  
DK-7100 Vejle  
Tel: +45 46 32 16 50  
@: info@pmw-engineering.com

### S-E-G Instrument

Gjuterivägen 21  
SE-168 67 Bromma, Stockholm  
Tel: +46 87 64 74 00  
@: inform@s-e-g.se

---

 Part of Jesma Group

[www.pmw-engineering.com](http://www.pmw-engineering.com)