



Plastic Caps and Closures Production Machines



TOMORROW IS TODAY



MATERIALIZE YOUR VISION

Our era is characterized by the rapid advances in technology and the constantly increasing demands made on men and machines. As individual as the requirements of the packaging industry may be, everyone wants to see productivity, quality and environmental friendliness optimized and running costs minimized. These are the demands which require tailor-made, efficient solutions. Solutions which achieve the desired benefits by expending a minimum of investment and energy. This takes experience and knowledge. PSG's comprehensive added value chain offers customers integrated solutions, from just one company. Using state-of-the-art technology, we produce innovative, user-friendly and reliable components and systems for the packaging industry which take into account economic and ecological aspects.

Our latest machine designs have been thought to contribute to the new environmental challenges of today. Power and oil consumption, footprint reduction, limitations of gas emissions and filtering devices are examples illustrating our concrete commitment to encourage a cleaner industry.

PackSys Global – excellence in packaging equipment solutions.

ADVANCED PACKAGING TECHNOLOGIES

Benefit from sophisticated packaging equipment solutions

PackSys Global is one of the world's leading technology companies for packaging equipment that enable customers to optimize their performance and to increase productivity in a sustainable way. We offer a broad range of products for the challenges facing our customers in their specific market. PackSys Global – smart solutions for the packaging industry to produce better quality at lower cost.

CUSTOMER FOCUS POLICY

PackSys Global serves customers throughout the world. Different cultures, different markets, but one thing in common: to create unique solutions for the challenges facing our customers in their sophisticated market. Our in depth understanding of specific market demands and our commitment to state-of-the-art technology enables the packaging industry to produce better quality at less cost. We have always been customer responsive, innovative, with a passion for precision and perfection. And that will never change.

TOTAL RANGE OF PACKAGING EQUIPMENT

PSG OFFERS A FULL RANGE OF COMPONENTS AND SYSTEMS FOR LAMINATE AND COSMETIC TUBE EQUIPMENT, ALUMINIUM MONOBLOC CAN AND ALUMINIUM TUBE LINES, METAL AND PLASTIC CLOSURES PRODUCTION MACHINERY, AS WELL AS CAN SHAPING EQUIPMENT.

AFTER SALES AND SERVICES

We are where our customers are. PackSys Global has a strong network of sales and service centers that can deal with our customers locally, in their own language according to their own customs. This gives us a strong capability across all continents. More than 25 PSG specialists are at your disposal. These highly trained individuals perform a complete range of services for laminate and plastic tube equipment, aluminium cans and tube decoration equipment, metal and plastic closures and can shaping equipment. They carry out repairs with a high degree of professionalism, but that's not all – they also install equipment, conduct preventive maintenance, provide planning services, hotline advice and newly offer remote service.

Eagle Owl is the exclusive PSG remote service from PackSys Global. We have engineered the latest communication technology and are able to operate on your machine, wherever you are in the world. Systems using simple and secured communication to the PLC, up to high definition cameras to assist you in the maintenance operation have been developed specifically by our IT specialists.

YOUR BENEFITS

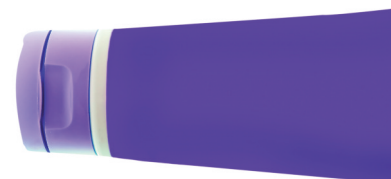
- >> Professional maintenance and repairs of your machine carried out by routine service technicians – to secure and maintain the value of your investments.
- >> Increased productivity, through trouble-free functioning of the equipment.
- >> Enhanced quality, thanks to optimal equipment settings.
- >> Enhanced know-how, based on expert guidance.

WE OFFER CONCRETE SOLUTIONS FOR SPECIFIC PROBLEMS ENSURING COMPREHENSIVE SPECIALIST KNOWLEDGE AND SERVICES EVERYWHERE, AROUND THE CLOCK. WE ARE EVERYWHERE, WHEREVER YOU NEED US.

LAMINATE TUBE EQUIPMENT



COSMETIC TUBE MACHINERY



ALUMINIUM TUBE AND CAN LINES



PLASTIC CAPS AND CLOSURES PRODUCTION MACHINES



METAL CAP LINES



PLASTIC CAPS AND CLOSURES MACHINERY

Plastic cap manufacturing is today one of the most innovative sectors of packaging, constantly improving as beverage companies develop new products in a fast changing market environment.

Growing competition faced by cap makers has raised new technical and economical challenges, which PackSys Global helps its customers to face. Production cost reduction, environmental awareness, but also dealing with the technical nature of the closure are today's priorities which are taken into account when designing any of our machines.

Many of the major plastic cap manufacturers around the globe trust PackSys Global machines, recognizing the suitability of our slitters, assembling machines and lining machines to the market demand.

Our strong R&D resources have led to new machine developments year after year, offering more productivity, flexibility, and versatility.



KKP MACHINE – CAP MANUFACTURING BY COMPRESSION MOULDING



Technical Data

Cap diameter (mm): 22 – 38, other diameter upon request

Cap height (mm): 10 – 24, other height upon request

Cap material PP or HDPE, other material upon request

Production speed: KKP 3 up to 1,300 cpm

KKP 4 up to 800 cpm

Compression moulding has long been a leading technology for producing caps and closures. Since there is no injection point, risk of micro holes in closures is eliminated.

Our range of compression moulding machines, type KKP, are designed and built to further enhance the advantages and characteristics of compression moulding. High throughputs are achieved by using continuous compression know how, delivering economies of scale for high volume production.

Our machinery has been specially designed to enable rapid change of the moulds. Snap fit connectors and hydraulic cylinders mounted externally enable replacement of a set of moulds in less than 5 minutes per station.

MSM S (SLITTING) / MSM FS (FOLDING / SLITTING) / MSM SF (SLITTING / FOLDING)



Technical Data for MSM S (Slitting)

Production speed: up to 4,400 cpm

Cap diameter (mm): 25 – 38, other diameter upon request

Cap height (mm): 10 – 24, other height upon request

Cap material PP or HDPE, other material upon request

Technical Data for MSM FS (Folding/Slitting)

Production speed: up to 4,400 cpm

Cap diameter (mm): 25 – 38, other diameter upon request

Cap height (mm): 10 – 24, other height upon request

Cap material PP or HDPE, other material upon request

SLITTING TECHNOLOGY

Slitting of the tamper evident bands on closures is a lower cost alternative to forming the bridges in the mould. Besides the advantages of cost, speed and maintenance, it allows the design of more sophisticated tamper evident bands since the material does not need to be pressed through the narrow bridges to form the rest of the band. Slitting of closures results in very accurate and consistent opening torque which, in general, can not be achieved by moulding the bridges. Changing the TE-bridge geometry can be easily achieved within minutes – all closures are slit on one knife. Therefore a higher, more consistent closure is produced.

Our slitting machines have been developed with Swiss technology and research to conduct folding and slitting operations with the highest levels of both precision and speed for optimum results. Our client base consists of the world's largest closure manufacturers who use our equipment around the world, testifying to the quality, flexibility and durability of our machinery.

FAST KNIFE CHANGE

The unique design of the slitting machines offers a fast and easy method to change the knife. A moveable knife support on the outside of the turret guarantees perfect access and repeatability of the knife position. Depending on the cap material an optional vacuum cleaning system located over the knife reduces slitting dust. Together with the heated cutting blade this guarantees the highest quality standards of the products. With PSG DURASLIT® cutting blade design, unique life time is guaranteed.

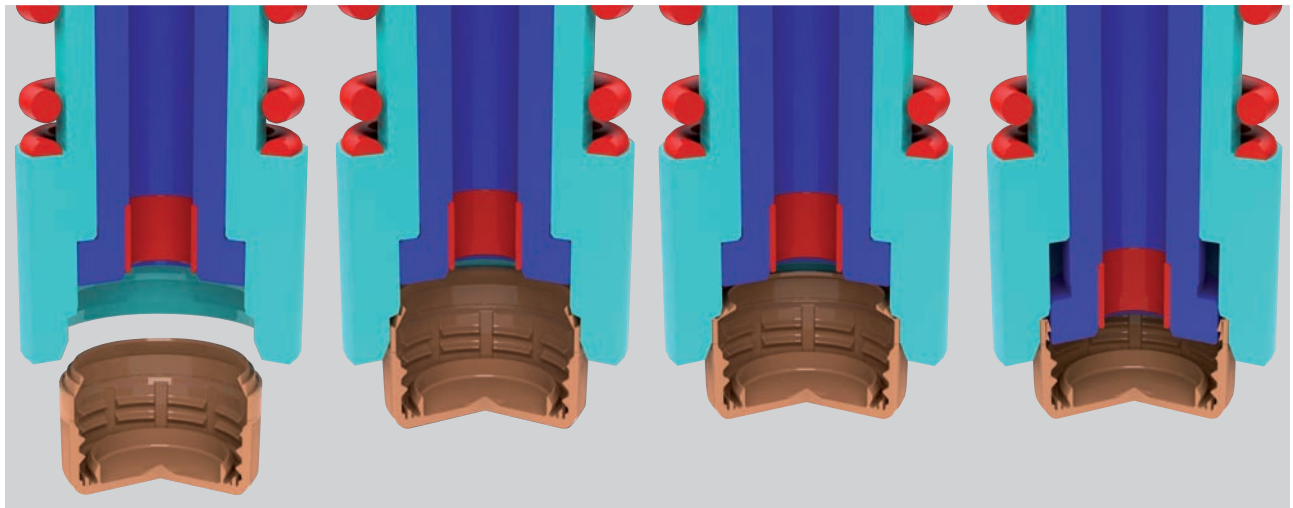


HIGH PERFORMANCE

For all slitting machines, high performance is a must. Running at up to 4,400 cpm they match the speed of the most modern cap production lines. All machines can be upgraded from 6 to 8 or 12 spindle version. Whatever production speed is required, with PSG's MSM you meet your needs. Innovative and well engineered machine design together with quality materials guarantee high product quality and a maximum lifetime. Unique combination of both processes, folding and slitting in one machine, allows operation with minimal required floor space - regardless of the sequence of the two processes. The use of oil bath lubrication and automatic lubrication cartridges keeps the machine in well maintained condition without significant down time for maintenance.



Folding process



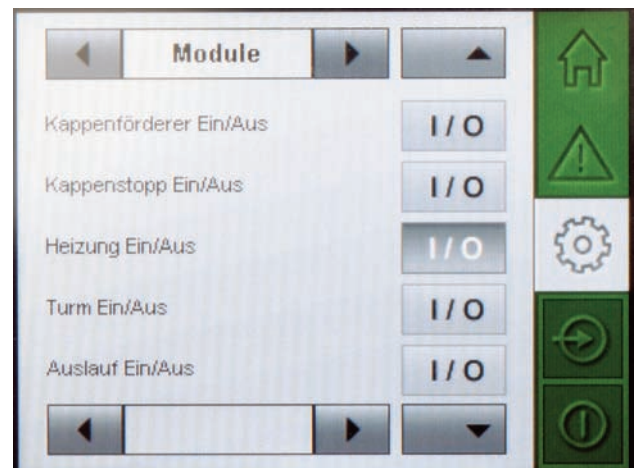
1 Before folding

2 Centering

3 Pre-folding

4 Folded

With its independent control and optional vision system, pinhole detection, degating unit, sampling channel for quality control, a wide range of quality and process features can be easily integrated into any production line and help keeping production costs on low level. As a partner of our customers our goal is to supply equipment that suits their needs.



TWO MOULDS – ONE FOLDING/SLITTING MACHINE

Option to process output of multiple injection moulds on one folding/slitting machine (same design, different colour) allows higher efficiency on less floor space and lower investment costs. Two bunkers are filled by individual moulds; change over from one line to the other is fully automated and controlled by MSM machine without any human intervention. Packing of processed closures to their individual filling place is guaranteed and controlled also on PSG's MSM machines. Integration of sophisticated colour control camera system with advanced software avoids cross contamination of various coloured closures produced.





MPM

Multi-purpose machine

This new multi-purpose machine is one of the most cost effective, flexible pieces of equipment on the market. The MPM can be used for plastic or metal caps, for glueing, inserting plastic pieces, slitting and roll-forming.

With a speed up to 250 pieces a minute, this reliable and modern machine has been designed to lower significantly production costs in multi-operation processes.

Integrated electrical cabinet and controls and electronic parts of the latest technology ensure high reliability and easy integration with modern upstream equipments.



Technical Data

Production speed max: 250 caps/min.

Cap diameter (mm): 22 – 90

Cap height (mm): 12 – 60

KDP 50

Inshell Liner Moulding Machine

Inshell compression moulding is a fast and reliable way of placing liners in closures. Lower costs than loose wads and easier to handle than outshell moulded liners, the technology offers the versatility and acceptance needed in the closures business. Our inshell liner moulding machines, type KDP combine these advantages with Swiss quality and precision known around the world.



Technical Data

Production speed:	up to 1800 cpm
Cap diameter (mm):	22 – 38
Cap height (mm):	10 – 24
Liner material:	PVC-free or other upon request



TOMORROW IS TODAY

YEARS OF EXPERIENCE COMBINED WITH INNOVATIVE IDEAS AND PROFESSIONAL
MANUFACTURE GUARANTEE TECHNICALLY DEVELOPED SOLUTIONS OF THE HIGHEST
QUALITY. WHEN YOU ORDER FROM US, YOU CAN BE SURE THAT DEADLINES WILL BE
MET AND THAT OUR COST-EFFECTIVENESS AND FLEXIBILITY WILL BE OPTIMAL.
WE ARE EXPERIENCED IN FULFILLING SPECIAL CUSTOMER REQUIREMENTS TO PERFECTION.

DEVELOPMENT OF NEW MARKET SEGMENTS, DYNAMIC INNOVATIVE STRENGTH,
THE PERMANENT INTEGRATION OF THE LATEST TECHNOLOGIES, AND KNOWLEDGE IN
DESIGNING COMPONENTS AND SYSTEM SOLUTIONS, ALL THIS PLUS THEIR INTERNATIONAL
PRESENCE, MAKE PSG AN ATTRACTIVE PARTNER. **FOR YOU, TOO.** _____ <<



**A STRONG PARTNER
WITH A WORLDWIDE
PRESENCE.**

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