

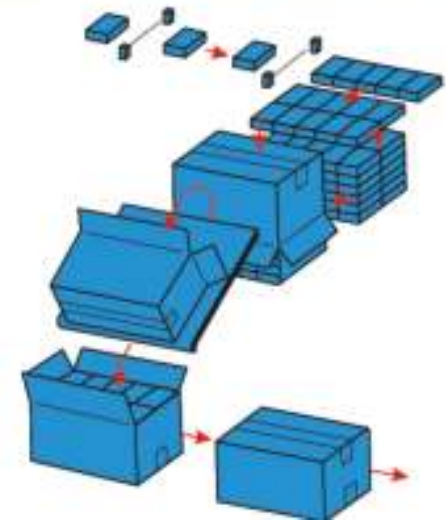


*Experts in Butter Process & Packaging Solutions*



## Who we are:

- Established in 1991, Milcom specialises in the design and production of processing and packaging machinery for the food industry specialising in pasty products such as Butter, margarine, edible fats, fresh cheese, other pasty products
- **Production of machines for food industry**
  - Butter : Complete lines for processing and packing of butter
  - Filling, forming and wrapping machines for pasty products
  - Cutters and thermizers for processed cheese and other products
  - Cartoning machines for blocks
- **Butter Lines:**
  - Continuous butter-making machines KM1000E, KM2000E, ZKU 25, Capacity 1.000 – 2.500 kg/hour
  - Butter homogenizer MILCOM HMM1200
  - Butter transport and buffer unit MILCOM DMC2
  - Wrapping machines PA1 and PU3, Dosing Range : 10-500 gr
  - Block packing machine, Dosing range 10 – 25 kg
  - Cartoning machines - automatic and semiautomatic



# Butter Processing





## Packaging and Cartoning



## Continuous butter-making machines

Butter making machine KZ-1 is designed to make butter from cream continuously. Cream with appropriate fat content, temperature is introduced to the to the equipment and at the outlet kneaded, cooled butter with correct water content is discharged. Butter can further be transported through pipes with help of the DMC 2 butter conveying device for further processing. Also During kneading, some additives can be added to butter.

### - **Models and capacities:**

- TYPE KZ1                      800 – 1.3000 kg/hour
- TYPE ZKU 25                1,600 – 2,250 kg/hour

### **Features:**

- two butter workers
- vacuum chamber between the butter workers to extend the shelf life of the butter
- automatic control of the water content in the butter
- automatic dosing of the water into the butter
- cooling of butter grain by a dual-jacket of separating rolls with ice water
- Touch screen plc.





## PA1 – Filling, Forming & Wrapping Machine



PA1 is a fully mechanical portion pack machine with a speed of up to 120 packets per minute and filling weights between 10 and 500 g, the single-cell machine offers the highest flexibility for wrapping pasty products. This machine can be equipped with a CIP system. It has an exceptional filling accuracy, extremely high reliability, and a very long life. Butter packaging at its best



### Technical Details:

<b>Main dimensions LxWxH</b>	: 2,3 x 2,8 x 1,55 m
<b>Weight</b>	: 1400 kg
<b>Packaging formats</b>	: Brick, cube, mini portions , semi circle
<b>Feeding of packaging</b>	: adjustable by transport rollers
<b>Packing material</b>	: aluminium foil, greaseproof paper or other suitable materials
<b>Packing format LxWxH</b>	: min 70 x 50 x 31 mm - max 100 x 75 x 43
<b>Dosing range</b>	: 100 g – 300 g
<b>Folding</b>	: adjustable, depending on used packing material
<b>Discharge</b>	: via conveyor belt, height above the floor 840 +/- 20 mm
<b>Centering device(optional)</b>	: adjustable, photocell - (optional)
<b>Coding device</b>	: adjustable, print – embossed (standard outfit) OR thermoprint by thermo-pressing-ribbon - (optional)
<b>Output</b>	: range from 60 up to 110 cycles/min max. spe120 cycles/min,
<b>Engine</b>	: 3 phase engine with brake frequency changer with regulator
<b>Lubrication System</b>	: Central system



# SK1 Semi Automatic Collation & Cartoning Machine

SK1 is fed through the conveyor of the PA1 wrapping machine. The operation consists of gathering, collating and layering and stacking of the butter packs into customer specific packing formats. The pre made cardboard box is slotted over the stacking by the operator and collected. The speed of this operation is synchronised with the wrapping machine.



## Technical Details:

<b>Main dimensions LxWxH</b>	: 2,3m x 1m x 1,3m
<b>Weight</b>	: 900 kg
<b>Total input</b>	: 0,5 kW, 1NPE/230V 50Hz, TN-S
<b>Engine (optional)</b>	0,25 kW, 400V
*the engine is a part of the delivery only if ordered with the conveyor belt	
<b>Drive</b>	: pneumatic, 200 l/min, min. pressure 7 bar
<b>PLC control (optional)</b>	: TECO TC 607 + 621 or SIEMENS
<b>Max. dimension of box</b>	: L x W x H 320 x 205 x 195 mm
<b>Feeding of the machine</b>	: conveyor from the wrapping machine
<b>Speed of the machine</b>	From 60 up to 140 packets/min.



## HMM1200 Butter Homogeniser

HMM1200 is used for reworking the butter and designed to homogenize bulk butter before re-packaging. This operation allows regaining the properties of butter as it was prior to cooling and allows water dispersion. This operation also reduces de-freezing time. The machine consists of frame, impeller drive motor, release muzzle with adjustable valve, removable impellers, hopper with screws, screw drive unit, motor gear and control panel.

### Technical Details:

<b>Main dimensions LxWxH</b>	: 2,3 x 2,8 x 1,55 m
Capacity	: 800 – 1600 kg/min.
Temperature of butter feed	: +4 to +15 °C
Temperature after homogenisation	: +13 to +15 °C
Impeller speed	: 700 rpm
Number of augers	: 2
General power	: 18,1 kW





## DMC2 Butter Buffer Tank and Transfer

DMC2 is used between a continuous butter maker and one or more packaging machines as a balance vessel with augers. It also prevents butter from contact with outside minimising bacteriological issues. Available as 500, 1000 and 1500 kg capacities.

### Composition of the Equipment

- Buffer tank (Silo)
- 2 conveying augers inside of buffer tank
- Gearbox for drive the augers
- Electric motor for driving the gearbox
- Centrifugal pump for washing the buffer unit
- Set of connecting pipes for washing the buffer unit
- Set of electopneumatic valves for washing circuit
- Set of connecting hoses for air and of connection cables



## MPVH-25 Block Butter Buffer Filling Machine

MPVH-25 is a semi automatic filler designed to fill butter into bag in box. The range of filling is between 15-25 kg. The block dimensions are customer specific. The filling device is composed of filling head with a dosing shutter and an operating platform with a carton fixation by side plates. The operating personnel switches on two small cylinders that shift circular supporting plates to the platform. An empty carton is placed upon rollers between plates, the big cylinder and also the platform is ejected by a driver from the primary position to the upper position against the filling head. After opening of a filling shutter the butter starts to be filled into cartons. We expect a constant speed according to the output of the butter making machine (or the dosing pump with the possibility of output control by a frequency changer, respectively). The maximum output of the packing machine is 3.000 kg per hour, i.e. 30 sec per one carton box. Two filling places are combined in such a way that at one place the product is filled, while the second one is getting ready for filling.





- THANK YOU -



**MILCOM**

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