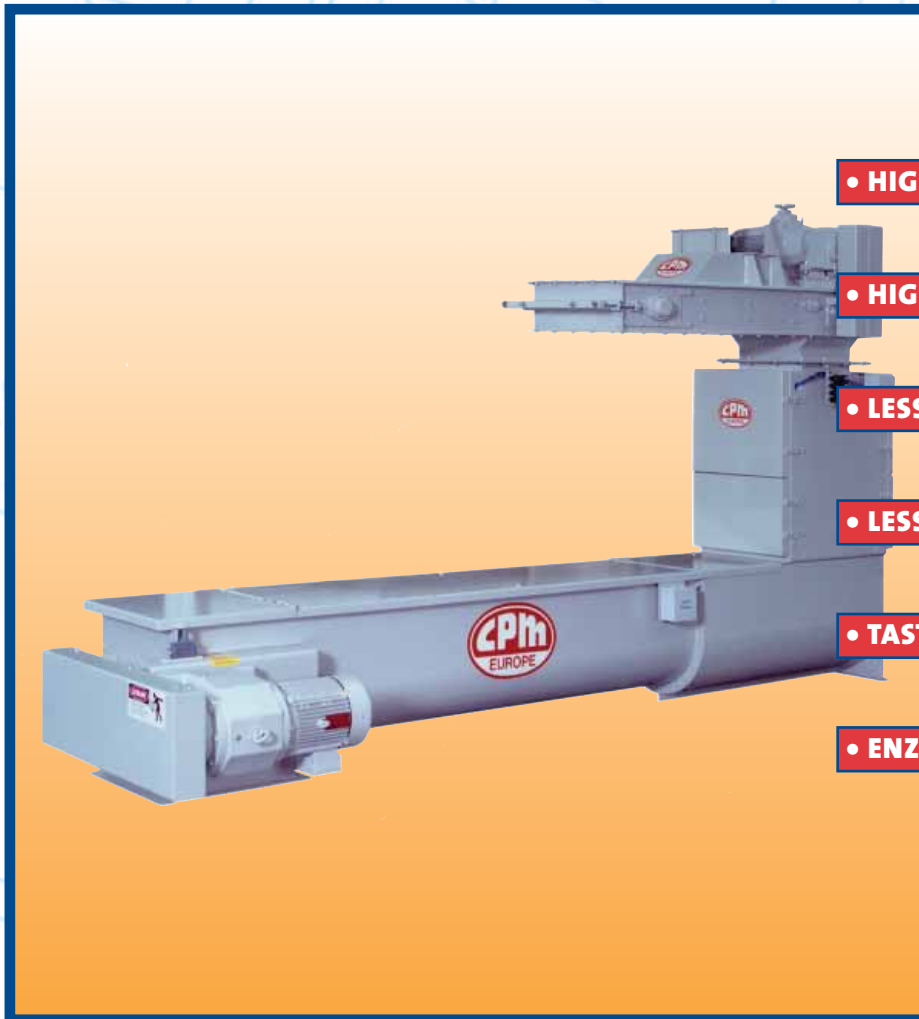




Since 1883

Liquid Addition



• HIGH PELLET QUALITY •

• HIGH FAT ADDITION •

• LESS DUST •

• LESS ODOUR •

• TASTE CONTROL •

• ENZYMES ADDITION •

Accurate **THE CPM ADVANTAGE**

More than twenty years of experience brought us up to **the state of the art** next generation coater for post pelleting applications like fat and enzymes. Guarantees high quality equal sprayed dust free pellets with high fat content.



Since 1883

Your partner

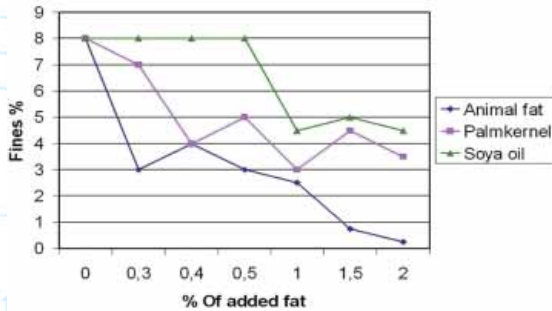
CPM LIQUID ADDITION

The first step in quality improvement

The first step to quality improvement is spraying fat at the pellets after they have left the pelletmill. Spraying fat allows a higher proportion of fat to be included, permitting the use of lower cost raw materials, while maintaining pellet quality.

Generally there are two major places in the pelleting lines where it is relatively easy to dose fat accurately. This is directly on the pellet mill die, or in a coater after the cooled pellets left the sifter.

The effect of coating on fines content



- Less dust from pellets.*
- Improved durability (higher Holmen).*
- Possibility to add more fat to the feed.*
- Better taste control.*

CPM FATSPRAYING ON THE DIE

The CPM controller monitors and controls the pelletmill capacity with the CPM dosing cabinet. This ensures in a simple way the accurate dosing of a constant fat percentage, regardless of the pelletmill throughput. The totally enclosed insulated heated CPM dosing cabinet contains a filter, motor with inverter drive, variable flow pump, flow meter and non return valve.



Fat is transported to the die chamber through a flexible heated pipe supplying fat to the spray block with air operated jet selection. It can handle any type of oil or fat of animal or vegetable origin.

FATSCOATING AFTER THE COOLER

To add fat in combination with enzymes and other micro liquid additions a coater can be used. Placing the coater in the end of the line reduces cross contamination and gives a better control on odor emission.

The feeding can be volumetric, by weighing belt or with lost in weight system. In the heated and insulated CPM spray box a curtain of pellets is sprayed from both sides. For fat spraying three air operated nozzle-guns are mounted on both sides of the curtain. With a precise selection of the different sized nozzles the liquid pressure is held between narrow limits and the spray pattern is kept most constantly. This system ensures most uniform spraying results with a minimum pollution. In the spraybox there are also located two air-operated spray guns, to spray liquid micro additions like enzymes etc. The partly heated and insulated ribbon screw gives the pellets the needed retention time to give the pellets the possibility to absorb the fat totally.



Fat Coater



Fat Cabinet



Spray Head Cabinet



Control Box

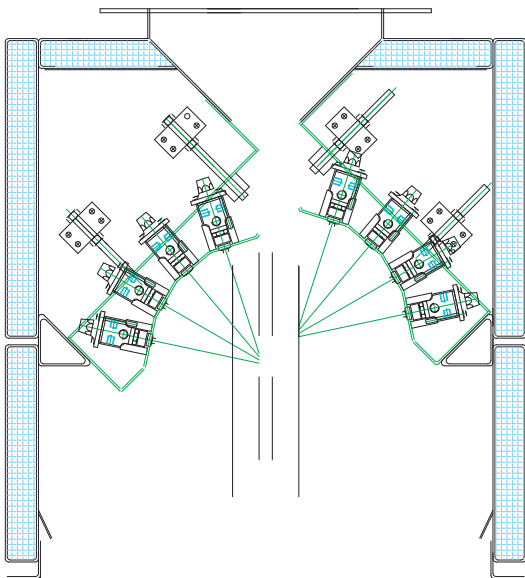
in productivity

THE CPM DESIGN

More than twenty years of experience brought us up to the state of the art next generation fatscoater:

THE FEEDER CHAIN

The feeder chain ensures an always-constant volume throughput. If desired the drive can be equipped with a frequency inverter to vary the throughput. The feeder chain is equipped with an adjustable feed gate, to set the desired throughput. Also a product flow sensor is installed, to double check if feed is present.



THE SPRAY CHAMBER

In the inlet of the spray chamber adjustable flaps are mounted, to optimize pellet curtain thickness at set throughput. Spray nozzles of the flat spray design are used to get optimal dispersion without pollution for spraying of fat or other liquids like enzymes. On both sides inspection doors are present for easy inspection of the spray chamber inside. For user friendly access to nozzles, separate nozzles access doors are fitted.

THE RETENTION SCREW

The retention screw consists of a ribbon screw of special design, for transporting the pellets without breaking them. The bearing is sealed to ensure a long leakage free bearing life. To get an optimal absorption and reduce pollution the first part of the screw is equipped with an electrically heated jacket. In the outlet a special lumps breaker is installed this is a special device to break lumps without breaking pellets. Together with the grid in the outlet it guarantees that there are no lumps in the finished product.

YOU WANT RELIABILITY

Special attention is given to prevent blockage of nozzles. By using special type nozzles equipped with an air actuated needle that is closing the nozzle when there is no spraying.

YOU WANT QUALITY

The nozzles are mounted in an angle to guarantee even and full addition of liquids and to prevent pollution by "sprayed through" liquids.

YOU WANT USER-FRIENDLINESS

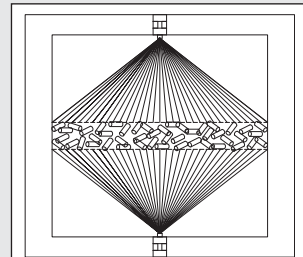
Proper heating improves clean and hygienic function of the fatscoater. Together with the easy access to the spraychamber this creates a user-friendly system.

YOU WANT FLEXIBILITY

Combination of fats coating and spraying of other liquids like enzymes at one point at the end of the production line to preventing contamination gives you full flexibility.

YOU WANT MORE

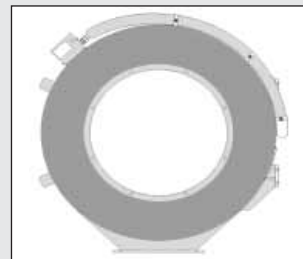
The User-friendly control panel is suited for placement in GMP/ISO standards based production environment, with the possibility to work with separate "loss in weight" or other throughput measurement systems. "Batch" wise read out of produced product and added liquids. It is also easy to connect with other PLC systems for master control, monitoring and printouts.



Spray Pattern



Enzyme Addition



Fats Spray On The Die



Door Mounted Spray Head



Dual Filters

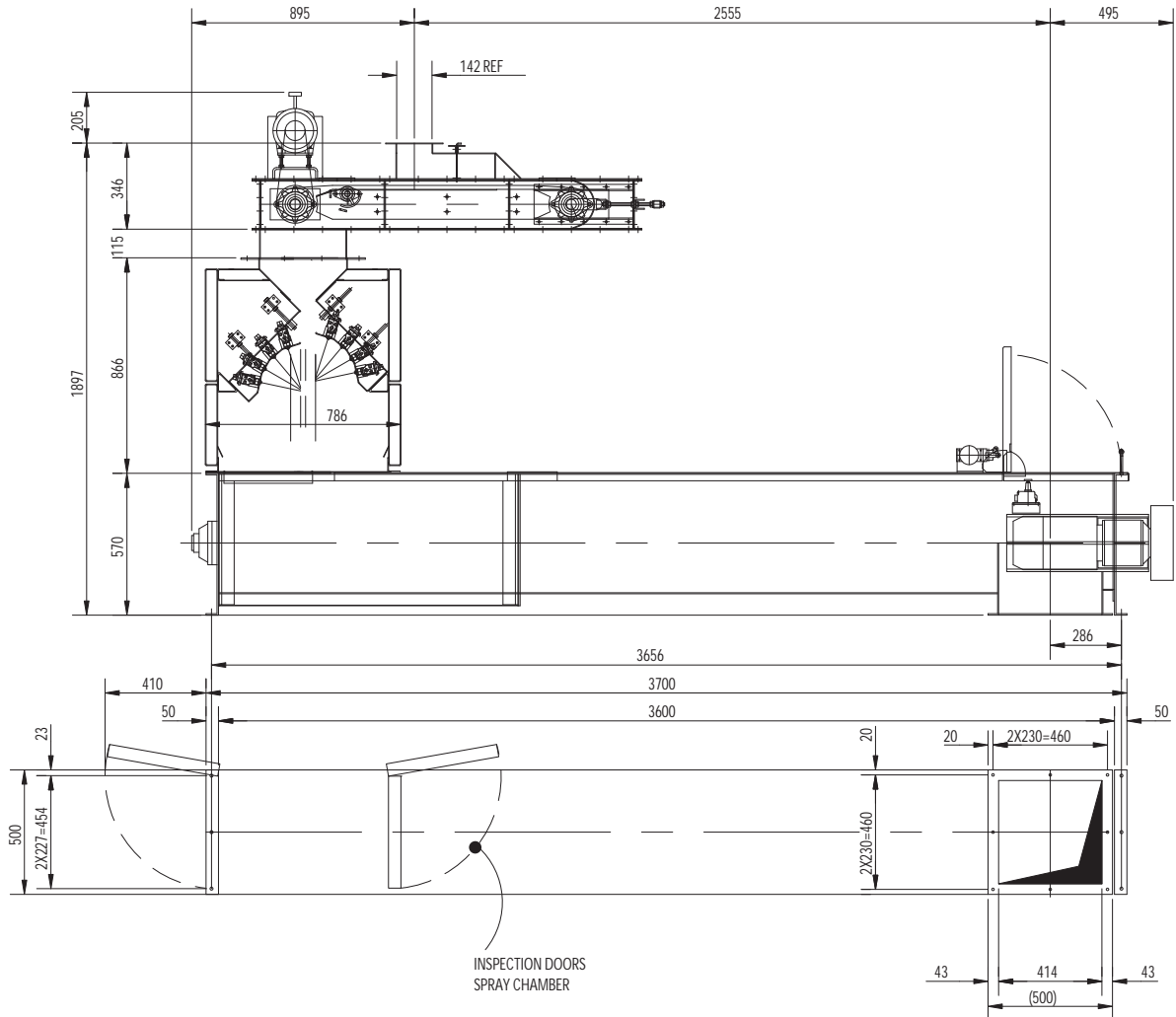


Mass Flow Meter



Since 1883

Liquid Addition



WORLD-WIDE

CPM offers service through a world wide network of local agents in nearly every country. They get supported directly from the regional headquarters by teams of pelleting technology specialists.

SALES DEPARTMENTS

Our establishments are staffed with qualified sales, engineering and service personnel and are well stocked with dies, parts and accessories. This ensures prompt efficient processing of all customer service requirements.

CONTACT

Please feel free to contact your local agent, our offices or our Internet sites www.cpm europe.nl or www.cpmroskamp.com.



CPM/Europe BV
 Distelweg 89
 1031 HD Amsterdam
 The Netherlands
 +31 20 494 61 11 Phone
 +31 20 636 42 94 Fax
 info@cpmeurope.nl

Roskamp Champion
 2975 Airline Circle
 Waterloo, IA 50703 - USA
 +1 319 232-8444 Phone
 +1 319 236-0481 Fax
 800 366-2563
 sales@cpmroskamp.com

California Pellet Mill Co.
 1114 E. Wabash Avenue
 Crawfordsville, IN 47933-USA
 +1 765 362-2600 Phone
 +1 765 362-7551 Fax
 800 428-0846
 sales@cpmroskamp.com

CPM/Pacific Private Ltd.
 21, Gul Drive
 Singapore 629470
 Republic of Singapore
 +65 6 265 07 01 Phone
 +65 6 268 64 28 Fax
 cus.svc@cpmasia.com