



fluidity.
nonstop

in meat processing

How to achieve it?

 AxFlow

Using the right pumps for your process? Or just the ones you've always used?



Pumps matter to the performance of your processes and choosing the right ones is critical - to productivity, profitability, reliability and to safety.

On the face of it, making the right choice should be easy - the necessary dimensions, output, material and safety standards are all given. What is harder to determine is the optimal choice of fluid handling technology.

To start with, what are you pumping? Is it shear-sensitive? How viscous and abrasive is it? Is it explosive? Or acidic? Do you need gear pumps, hose pumps, diaphragm pumps or progressive cavity pumps? Or self-adjusting technologies and pumps with minimal parts to reduce wear and maintenance? Could sealless technologies prevent

leakage and anti-friction bearing designs reduce energy use? And what about integrated heating/cooling jacketing for total temperature control of the fluid being pumped?

Should the pumps be self-priming? How easily can you strip lines to remove valuable product residue? How can you avoid cross contamination? How effective are your mixers in avoiding sedimentation and how easily do they integrate with the rest of your process? Do they require large vessels? How much energy do they need?


Lots of questions without one general answer - only the optimal pump, mixer or complete pumping system for your process.





! Your production process is marked by critical control points where different fluids are pumped, mixed, injected and filtered. Too often the role these points play in process performance is underestimated. To get the very best from your process, all the individual parts should work in harmony. In the chart that follows, those critical fluid handling points are marked with a red **!** symbol. You may only need to consider performance, dimensions and material specifications of the pump; alternatively you might also need to evaluate the pumping technology, safety issues or compatibility with upstream and downstream systems as well as overall process control matters.


fluidity.nonstop in Mechanically Deboned Meat (MDM) production

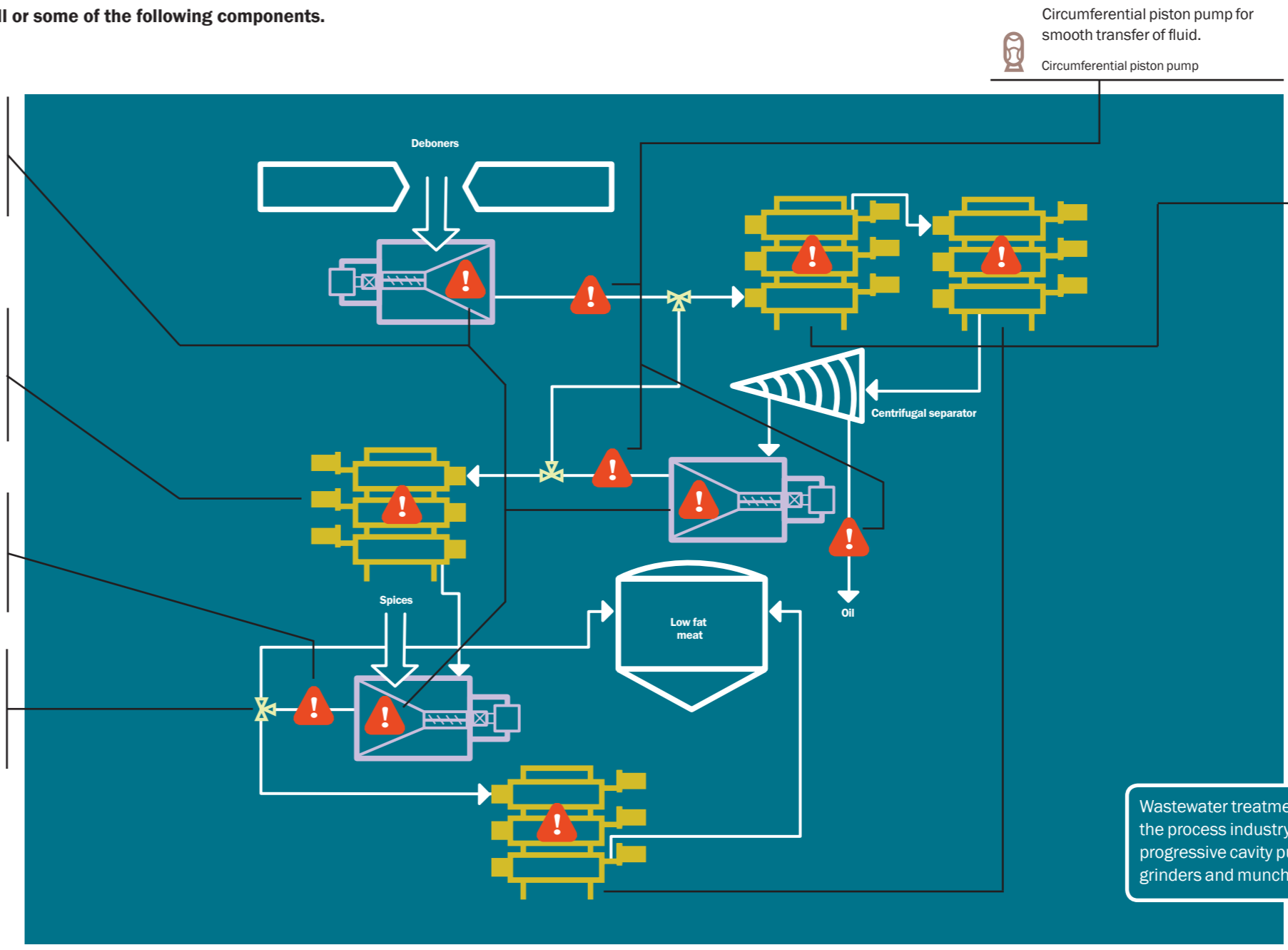
An MDM production process may include all or some of the following components.


Tailor made pump feeders
 Pump feeder


Scraped surface heat exchangers continuously scrape the inside surface of the barrel to prevent the accumulation of product and possible contamination and assure an efficient heat transfer.
 Scraped surface heat exchanger

Circumferential piston pump for smooth transfer of fluid.
 Circumferential piston pump

We source a wide range of hygienic valves such as process, mixproof and regulating valves.
 Valves



Circumferential piston pump for smooth transfer of fluid.
 Circumferential piston pump

Scraped surface heat exchanger for high efficiency cooling, heating and tempering. It is designed to handle highly viscous fluids or products, which contain particles. The movement of the scraper blades across the tubular wall of the heat exchanger enhances heat transfer efficiencies and produces a homogenous mixture to ensure even heating or cooling.
 Scraped surface heat exchanger

Equipment used in MDM production must be tough, durable and resistant to abrasion from bones and spices.

From warm to cold. Deboning and decanting generates heat and prolonged high temperature is a hygiene risk.

Excess fat is separated, cooled and used as a base for sauces, soups and convenience foods.

Bones and remains of carcasses can even be pumped off as a by-product.

Smart system design makes cleaning fast, efficient and simple.

Knowledge is power. Complete centralized monitoring of the system keeps you in control.

Wastewater treatment forms an integral part of many applications in the process industry. Our solutions may include a combination of progressive cavity pumps, AODD pumps, hose pumps, mixers, filters, grinders and munchers.

Scan for more details about these products.



Hygienic production requires

understanding how the product behaves under differing conditions and recognizing the critical control points. But you also need to know how much that product in turn affects its environment. Bones, for example, can scour and abrade pipework. This can lead to the development of potential bacteria traps. And to complicate things further, carcasses from different animals behave in different ways.



Oil and fat for secondary processes can have a tendency to accumulate inside surfaces. This accumulation affects temperature and consistency. In severe cases it can become a hazard point.

Predictable temperature control with fast cooling is key to ensuring safety and hygiene.

The end product is a high quality, and often low-fat delicate raw ingredient. But the process itself is tough on equipment. Look for low, total lifecycle cost.

Speed is key at all times! When you need to increase the temperature it should be fast. And when you need to cool, it should be faster still.

Even if you do not practice CIP, effective cleaning should be as simple as can be.

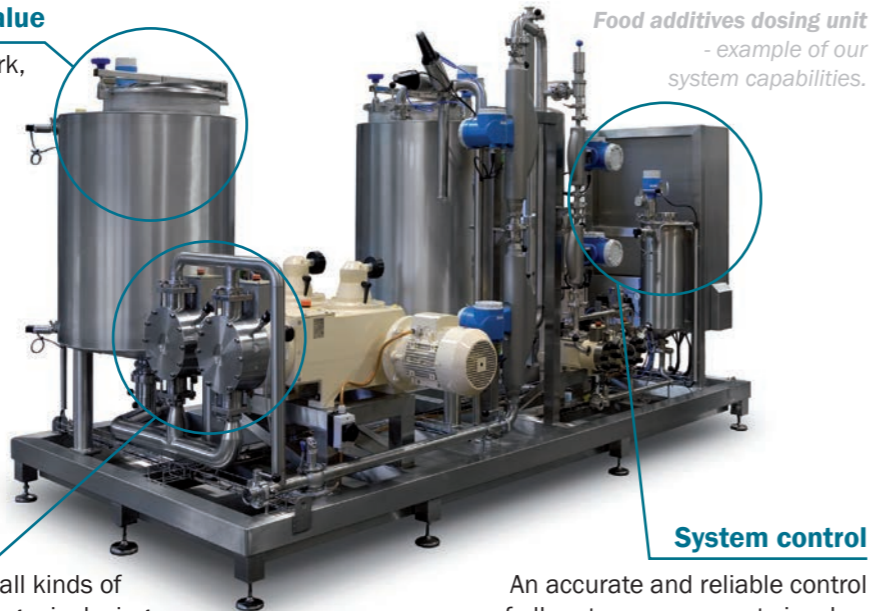


There's no single system solution from AxFlow. Just the right one.

Our systems have been installed and are in operation across virtually all areas of industry.

Mechanical added value

All necessary framework, tanks, piping and other stainless steel components to create a complete system.



Accurate dosing

Dosing components for all kinds of dosing systems - from hygienic dosing of colours and flavours up to dosing of liquid chemicals in waste water and chemical industry.

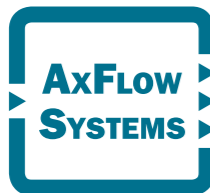
Food additives dosing unit
- example of our system capabilities.

System control

An accurate and reliable control of all system components is a key to the optimal control of the entire system as well as your production process.

Complete system capabilities

We like to bring to the table our engineering expertise and services. Our systems range from compact, skid-based systems that improve dosing performance within larger production processes, through comprehensive and mobile trailer-based mixing and delivery systems.



Here are some of the leading brands we represent!



> Waukesha
Cherry-Burrell

Bredel
Hose Pumps

> Bran+Luebbe

NOV Mono

VIKING PUMP

SANDPIPER
A WARDEN PUMP BRAND

> Plenty

GOULDS PUMPS

> Lightnin

We represent the very leading brands in each technology. These technologies include: pumps, mixers, valves, dispersion equipment, grinders, heat exchangers, instrumentation and analysis equipment, fittings and tubing.



Delivery from stock!

From our logistically-optimized Distribution Centre in the Netherlands we can ship pumps and other equipment from stock to customers within 48 hours anywhere in Europe.



Less things to worry about.

However you look at it, optimizing your processes is about more than just having the equipment. We provide full service – from product and systems consultancy, repair and maintenance, certification, training all the way to quality assurance.



fluidity.nonstop® is about keeping your processes running. And it's our promise and our commitment to a level of service and a quality of product, performance and expertise that has never been bettered.

By its nature, fluidity.nonstop is never static, that promise is ever-evolving and improving. As needs and demands change, we work to meet those new challenges and try to surpass them. We are Europe's leading source of pumps and pump expertise for the process industry and we intend to maintain that position by working fluidly and ceaselessly to be the best.

For more information, please visit www.fluiditynonstop.com

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