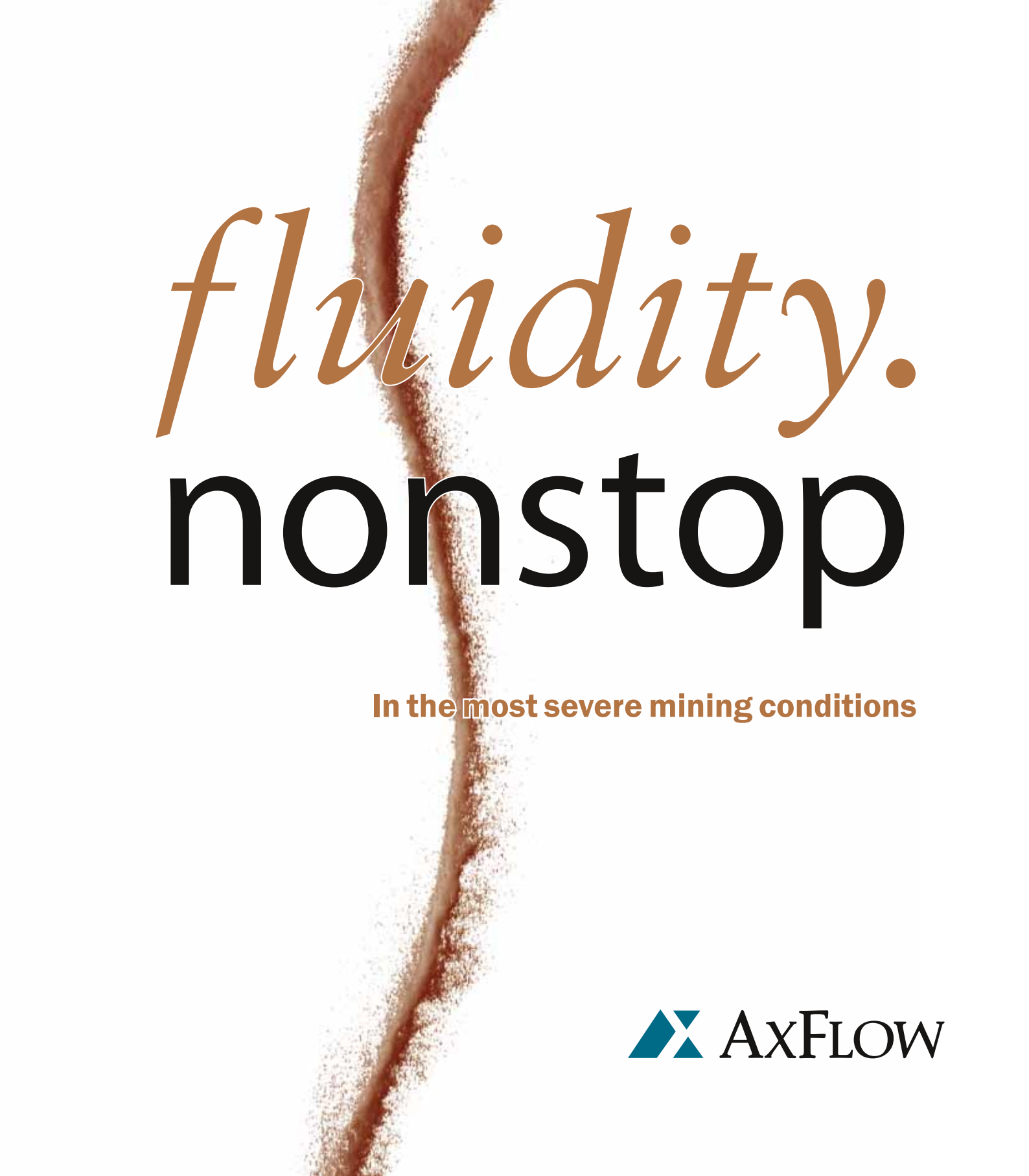

fluidity.
nonstop
In the most severe mining conditions
AxFlow

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

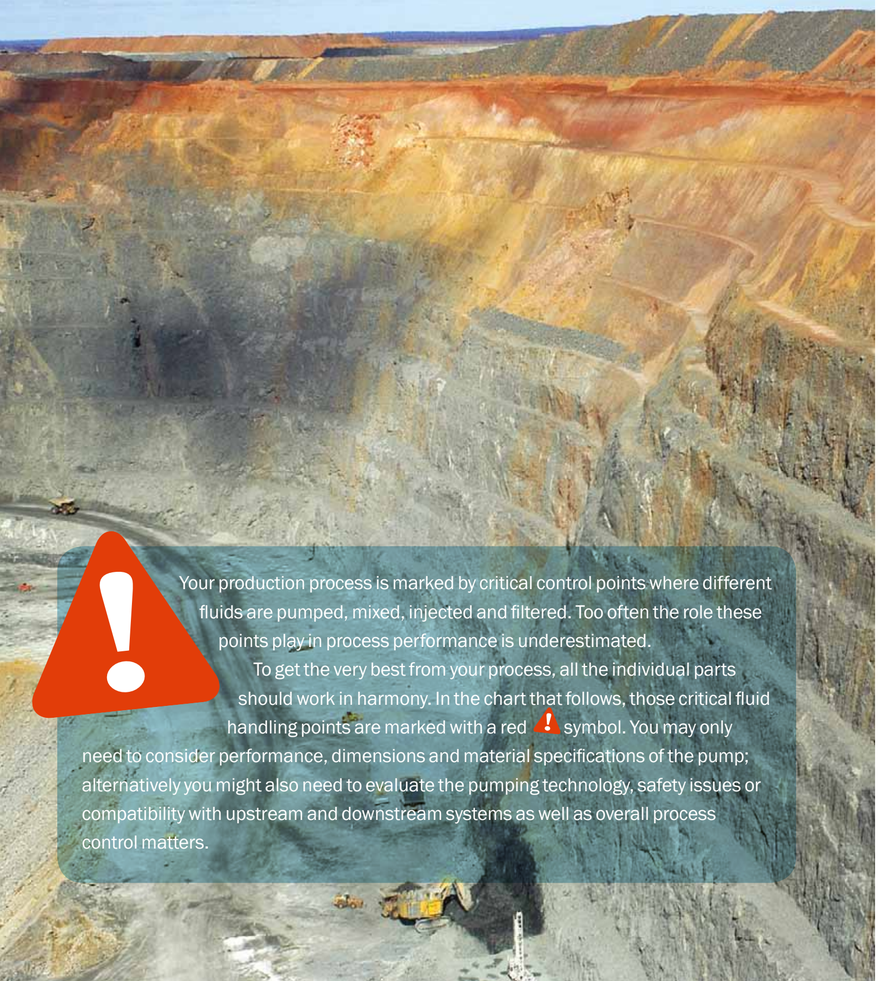
Pumps, mixers and other fluid handling equipment matter to the performance of your processes and choosing the right one is critical - to productivity, profitability, reliability and to safety.

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 high solids? How viscous and abrasive is it? Is it explosive? Or acidic? Do you need vacuum 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 and mixer for your process. We can help you select the best equipment for the job!



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 mining**

An extractive metallurgy mining process may contain all or some of the following components.

Reagent addition and flotation. Ore sand is carried out to froth flotation cells, where also reagents are added. The tails are separated from the mineral concentrate. Hose pumps are ideal for lime slurry rings, barium chloride , pH adjustment. Metering and dosing pumps for dosing of chemicals and mixers for flotation tanks.

- Hose pump
- Metering & dosing pump
- Centrifugal pump
- AODD pump
- Progressive cavity pump (PC)
- Blower

Crushing. Hose, PC or centrifugal pumps for transport of water. Centrifugal pumps are used for high pressure transfer to different transport levels, as well as buck and booster pumps.

- Progressive cavity pump (PC)
- Centrifugal pump
- Hose pump

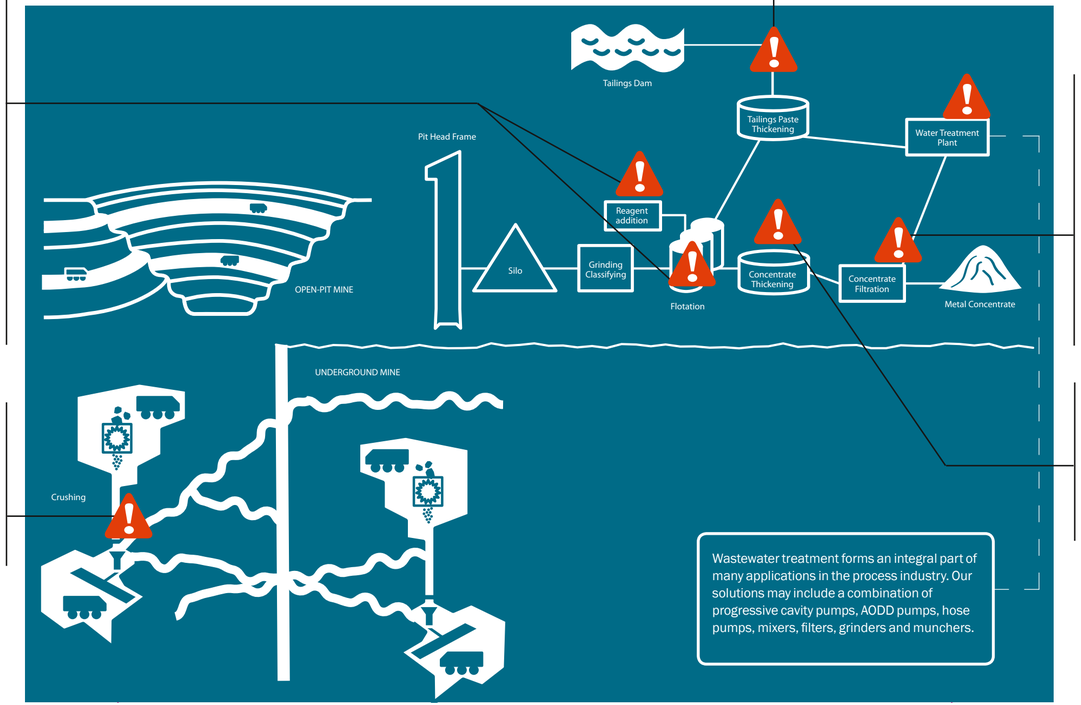
AxFlow Systems range from compact, skid-based systems that improve dosing performance within larger production processes, through comprehensive and mobile trailer-based mixing and delivery systems.

AxFlow Systems

Scan for more details about these products.

The tailings paste thickening. High solids material is deposited in large tailing ponds. Polymers, oxides and/or lime are added. A tailings paste is relatively homogeneous with coarse and fine particles uniformly distributed throughout the deposit. The viscosity of a paste suspension is higher than for settling slurry. In many cases a paste has a shear thinning characteristic or is thixotropic. Therefore selection of proper pumping technology is critical. In some cases the tails are mixed with cement and pumped back into the mine (backfill applications). Hose and PC pumps for paste pumping. Metering and dosing pumps for precession polymer and chemical dosing.

- Hose pump
- Metering & dosing pumps
- Progressive cavity pump (PC)



Concentrate filtration. The mineral concentrate is dewatered by filter press. The remaining water is sent to waste water treatment plant and the metal concentrate is ready.

- Hose pump
- Vacuum pumps
- Progressive cavity pump (PC)
- AODD pump
- Centrifugal pump

Concentrate thickening. The primary purpose of thickening is to increase the solids concentration of the feed stream. Gravity settling is aided by addition of chemicals called flocculants.

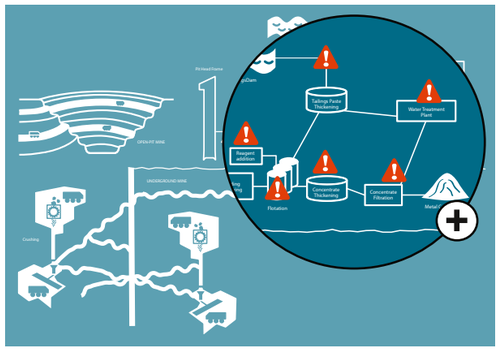
- Hose pump
- Centrifugal pump

You know what you want from your processes. We, in turn, understand fluid dynamics and the equipment and systems you use to optimize those processes.

These are two sides of the same coin. The closer you control your processes, the more you can squeeze from even narrow margins. And the greater your peace of mind.

‘System thinking’ its not about size, but about perspective

Liquids in mining applications are often aggressive and abrasive with high solids content and high viscosity. That makes the selection of fluid handling equipment a challenging task, not to mention the service and maintenance to keep the desired up-time. We have been selling pumps, mixers and complete fluid handling equipment to the mining industry for more than two decades - so we have a lot to bring to the table.



Complete system capabilities
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.

These are our top selling pumps and mixers for mining applications

Realax peristaltic pumps are excellent for pumping tailings slurries and sludge to filter presses.

Gardner Denver NASH vacuum pumps and compressors are durability and reliability at a low cost of operation.

EZstrip transfer pumps can advantageously be used when pumping abrasive slurry.

Here are some of the leading brands we represent!

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 equipment. We provide full service – such as system and product consultancy, repair and maintenance, certification, training – that let you concentrate on your job.

*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

For more information? Call one of our area product specialists on 08-602 22 00 and visit our website at www.axflow.se

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