

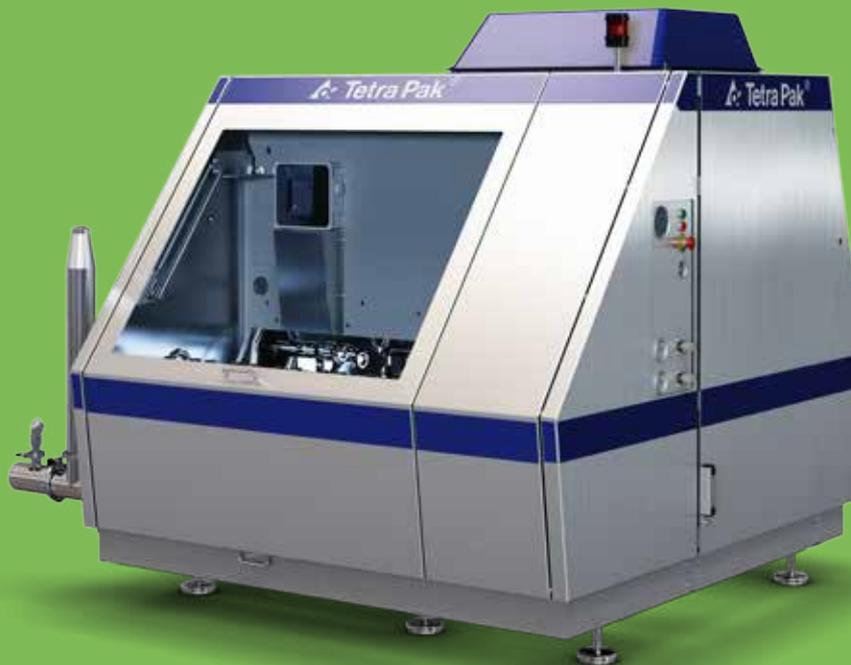
# High-pressure pumps for sound performance

Tetra Pak® Homogenizers



# Pioneering design for high-pressure pumps

The pioneering design of Tetra Pak® Homogenizers reduces the footprint of the machine while keeping weight to a minimum. The Tetra Pak Homogenizer 400 equipped with the biggest motor still only weighs 6 900 kg. Despite the low weight no sacrifice of quality has been made. The pump block for instance is in solid forged stainless steel and comes with a unique 5 year warranty against cracks. All parts of Tetra Pak Homogenizers are designed with food safety in mind. The hygienic design complies with strict hygienic standards and guidelines such as 3A and EHEDG.



# Ensuring the profitability in your business

Within prepared food and for powder applications Tetra Pak Homogenizers work both as a homogenizer and as a high-pressure pump. A high-pressure pump is defined as a homogenizer, with or without homogenization stages, which will have an outlet pressure of 60 bar or more.

Having a pump with two homogenization stages to feed a spray dryer is the perfect way to ensure a smooth product quality and at the same time deliver enough pressure to the nozzles.

Tetra Pak Homogenizers are very flexible and well suited for different customer demands with capacities from 220 l/h up to 52 300 l/h and pressures up to 630 bar depending on model.

## Durable parts for long uptime

Tetra Pak Homogenizers are equipped with our homogenizing device the HD 100. With its pioneering design, both the forcer and seat of the HD 100 are turnable, so you get double the lifetime compared to conventional designs. As a result of the easy access changes are made quickly to ensure the uptime.

HD 100 is also available as a wide gap design that is more wear resistant than the standard device. For really abrasive use the seat can be ordered in sintered carbide to improve the life time. TD valves are available to all Tetra Pak Homogenizers, either as standard or through sales option.

The unique design of the TD valve will allow for long life time, and once worn both the valve and the seat can be turned in order to reduce spare parts cost. The TD valve is the most cost-efficient valve on the market. The standard piston is stainless steel, but for abrasive products and where uptime is of the essence there are other material available such as case hardened pistons or solid ceramic pistons.

## Protect your line

A Line Pressure Relief Valve (LPRV) is standard for the Tetra Pak Homogenizers high-pressure pumps. The LPRV is a unique hydraulically op-

erated bleed valve which protects the line after the homogenizer. It is automatically controlled for easy operation and thereby convenient to clean during CIP. The LPRV is fully automated and will close as soon as the pressure in the line is within limits again. The LPRV also makes it possible to maintain constant pressure during start up of a spray dryer. We call it pioneering design. You might prefer to call it higher profitability for your business!

## Tetra Pak Homogenizers for all needs

There is a Tetra Pak Homogenizer model for each need. Depending on the capacity and pressure suitable for your process we will find the right model for you. Each Tetra Pak Homogenizer model is also available with a wide range of sales options. Please contact your sales representative to hear more about the selections suitable for you.

## Tetra Pak – A reliable partner

Tetra Pak has extensive knowledge of applications from dairy and food installations world wide. We know that high up time is not only about superior materials and design. Once you need to make maintenance you can rely on Tetra Pak to be there for you. We have the experience and the technological knowhow needed to give you the right support from the start. Tetra Pak is present in most countries around the world, always offering local and fast service.

## Sound processing performance

Our job is to enable you to develop and improve your products and production.

The component solutions we deliver are specifically designed to:

- treat your products gently
- be as economical with resources as possible
- meet high demands on flexibility – in your present production and via future upgrading possibilities

That's what we call sound performance.