



Landia Chopper Pumps

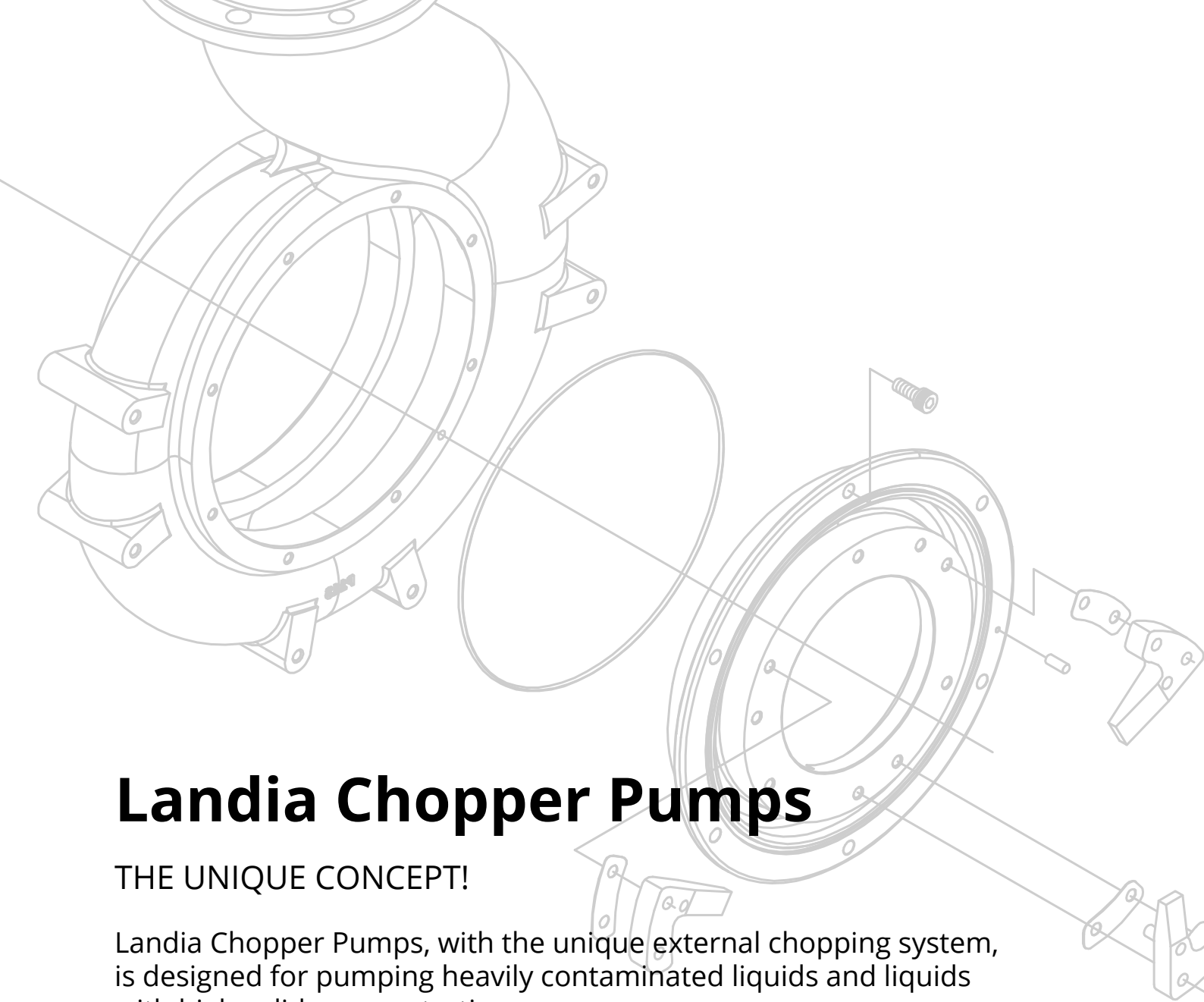
The true non-clog pump
Perfected since 1950



Landia[®]

ENGINEERED TO LAST





Landia Chopper Pumps

THE UNIQUE CONCEPT!

Landia Chopper Pumps, with the unique external chopping system, is designed for pumping heavily contaminated liquids and liquids with high solids concentration.

The chopping system is clearly separated from the pump casing and the impeller. This prevents blocking of the pump and its subsequent piping as all chopping is completed before the liquid enters the pump housing. The wear on the pump casing, impeller and sealing system is significantly reduced due to the chopping system design.

Due to the open impeller design the Landia Chopper Pump is also ideal for pumping high viscosity liquids. If the pumped liquid is abrasive, the pumps are available with special hardened pump components which will extend the lifetime significantly compared to standard material.

Most Landia Chopper Pumps are also available in AISI 316 stainless steel for acidic liquids.

Landia Chopper Pumps can be found in waste water applications, on biogas plants, the food industry, mining etc. The applications are numerous and in general a Landia Chopper Pump takes over where other pumps give up.

Landia Heavy Duty Chopper Pumps

- recommended by satisfied customers

Thousands of Landia chopper pumps are in operation throughout the world.

Among the applications are:

- Domestic waste water with food waste, paper, fats and vegetables
- Abattoir waste water with bones, intestines, feathers, hair and fat
- Sludge, organic waste, slurry and straw at biogas plants
- Waste oil from repair shops etc.
- Fish and fish waste
- Paper pulp and paper waste
- Cooling water with hard solids

Many other tasks can also be carried out by means of Landia's unique concept for chopping and pumping.



➤ Biogas, Preparation Tank

A key to success in anaerobic digestion-type biogas plants is proper preparation of the waste to be introduced to the digester. Landia's heavy duty chopper pumps are the obvious choice for this application.



At this site in France, different kinds of left-over bread waste is effectively mixed and chopped by a Landia long shaft chopper pump (model MPG-I). The optional mixing nozzle makes it possible to continuously recirculate the waste to the desired homogeneity, before it is pumped to the digester.



➤ Unscreened Waste Water

The Landia chopper pump has in many cases proved to be an excellent choice for sewage containing rags, tissues, debris, etc.

The pumps featured on this photo are installed in a lift station at a large convention hall in San Francisco, USA. The many rubber gloves and other debris in the sewage proved too big a challenge for the alleged "non-clog" pumps already installed. After installing the Landia chopper pumps, these problems were all eliminated.





➤ Food, Fat and Wet Wipes

People put all sorts of things beside human waste and toilet paper down the drains. This creates problems for the sewage pumps in terms of blockages with time consuming and costly maintenance as a result. Food fat and wet wipes are the primary sewer abuse offenders.

Several clients in England and Germany had problems with existing sewage pumps. After every rainfall, textile toilet articles such as wet wipes clogged the pumps resulting in unexpected maintenance and increased costs.



Landia chopper pumps have, whether submersible or dry installed, solved the problems with significantly reduced costs as a result.



➤ Waste Tomato Leaves

Landia Chopper Pumps are not only used for pumping purposes. In many cases the unique chopper design is utilized as part of the pre-treatment process in biogas and AD facilities. By means of recirculation the solids, be it vegetable, fibres or food waste, are cut into smaller and smaller particles opening up the structure and hence provide access for the anaerobic bacteria with an increased biogas production as a result.

Biotech Services in the UK each day disposes some sixteen pallets (400 kg per pallet) of tomato leaves. The masses of thick tomato leaves first have to be fed into a hopper, from where they are chopped by a macerator. Up to 40% dry matter, the leaves have a very thick consistency, so pre-treatment is vital. At this stage, a stainless steel Landia MPTKR Chopper Pump is utilized to break down the organic plant material in a reception tank, otherwise its natural healing ability would make it go solid.



➤ Fish Waste

Protection of our environment is an important agenda in most countries nowadays. This often results in increased demands concerning waste handling. Landia's versatile chopper pumps offer many possibilities within this area.

The Landia dry installed chopper pump in this photo is integrated in a process tank, and is used for converting catfish waste to a liquid silage. This process is made possible by the introduction of formic acid in combination with the chopper system on the pump inlet. The corrosive environment caused by the acid is no problem for the Landia pump, as this model features stainless steel (AISI316) hydraulic components.

A Complete Pumping Programme

Landia chopper pumps are available in many types and models in cast iron or stainless steel and can be tailor-made for your pumping system.

The numerous outstanding advantages of the pumps ensure the optimum performance.

We supply the pumps with:

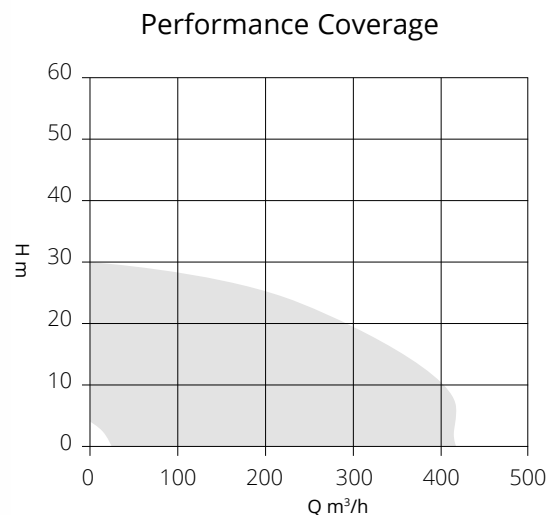
- Open impeller design
- Motors from 0.55 to 37 kW, also available in explosion proof design
- Single or extended knife systems
- Special hardened pump components for abrasive applications
- Pump casings and impellers in surface-coated cast iron or in acid proof stainless steel
- Adaption to existing installations
- Extensive line of equipment for e.g. combined pumping and mixing



Long Shaft Chopper Pump for Wet Well Installation Model MPG-I

Extremely sturdy pump with liquid lubricated bearings. Almost maintenance-free. Especially suited for combined pumping and efficient mixing. Sizes: 4", 5" and 6".

Pump with
shredder
propeller
and extended
knife system.

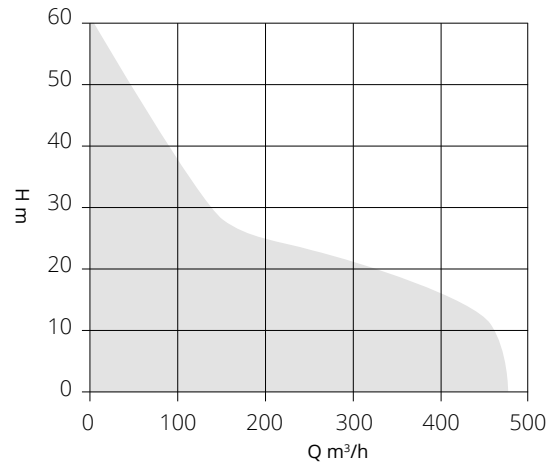


Submersible Chopper Pump Model DG-I

In addition to the complete submersible pump installation with coupling flange in vertical installation we are also able to supply pumps for horizontal installation or with an adapter for existing installations.



Performance Coverage

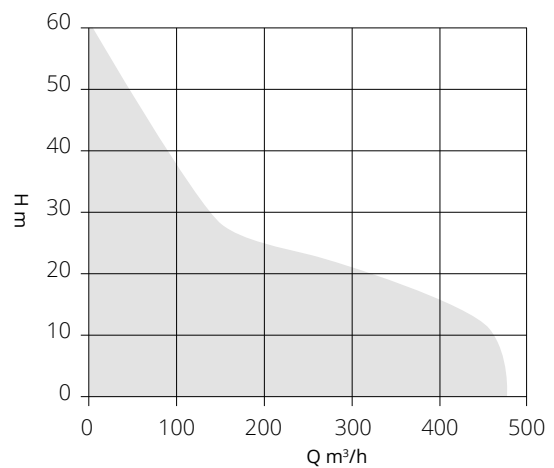


Chopper Pump for Dry Installation Model MPTK-I

The pump can be mounted in new or existing installations. Horizontal or vertical installation.



Performance Coverage



Landia was founded in 1933 and is today a modern, successful and firmly based manufacturer of a comprehensive programme of chopper pumps, propeller mixers and aerators, offering customised solutions and systems for difficult to handle liquids with high dry matter content, liquid, biomass and other organic waste.

Our customers are involved in the conception and construction of biogas plants, municipal and industrial waste water treatment, processing of by-products and waste from the food industry, agricultural slurry handling and much more.

We support our customers through our subsidiaries and offices in the UK, the US, Germany and China and a worldwide net of professional distributors.

Distributor:

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