

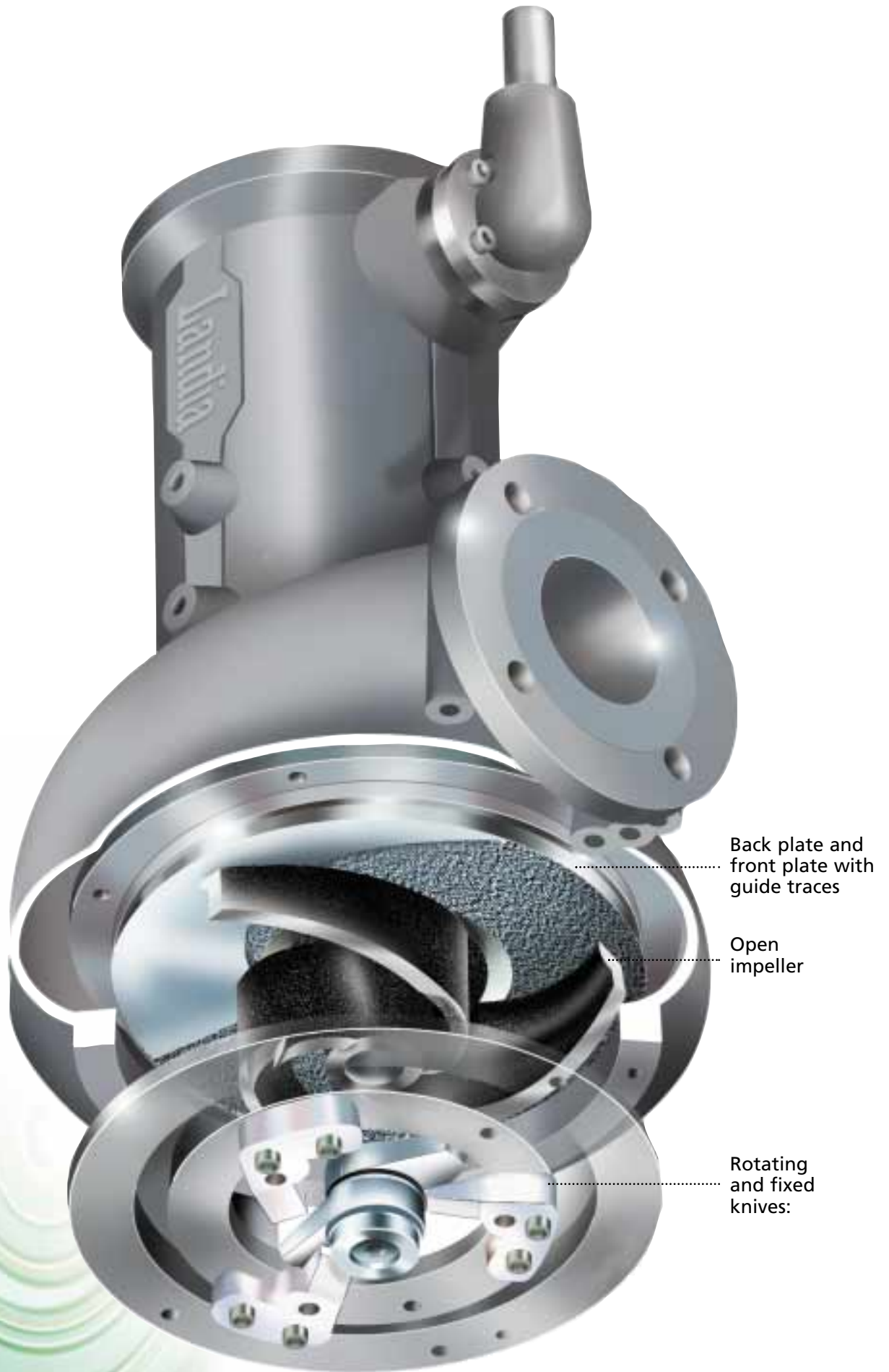


# Pulp and Paper



CHOPPER PUMPS AND MIXERS

**Landia**<sup>®</sup> AS



Back plate and front plate with guide traces

Open impeller

Rotating and fixed knives:

# The Unique Concept

In Landia chopper pumps the knife system is isolated, clearly separated from the pump casing and the impeller. This ensures that the pump and the subsequent pipe do not block and that the pump casing and the impeller are not worn or damaged in connection with the chopping function of the pump.

## Rotating and fixed knives:

The knife system in front of the pump casing and the impeller ensures that

- The pump inlet is kept free
- The dry matter particles are chopped before the medium enters the pump
- The impeller and the pump casing are protected against impurities.

## Open impeller:

The pump casing and the impeller form a unit which ensures that no dry matter particles are "caught" in the pump. The shape and the size of the impeller are adjusted to the pumping situation and to the nature of the medium.

## Back plate and front plate with guide traces:

Ensure that the dry matter particles are transported to the outlet of the pump, and thus protect the sealing system in the best way.

## Landia pumps with knife system - the answer to all your jobs

# A Complete Pumping Program

The Landia chopper pumps are available in many types and models in cast iron or in stainless steel and they can be custom-built for your pumping system.

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

We supply the pumps with:

- Custom-made impellers for difficult mediums
- Motors from 1.1 to 30.0 kW, also available in explosion proof design
- Single or multiple knife systems
- Augers/shredding propellers adjusted to the nature of the medium
- Pump casings and impellers in surface-coated cast iron or in stainless steel
- Mounting equipment for existing installations
- Extensive line of equipment for e.g. combined pumping and mixing

## Applications:

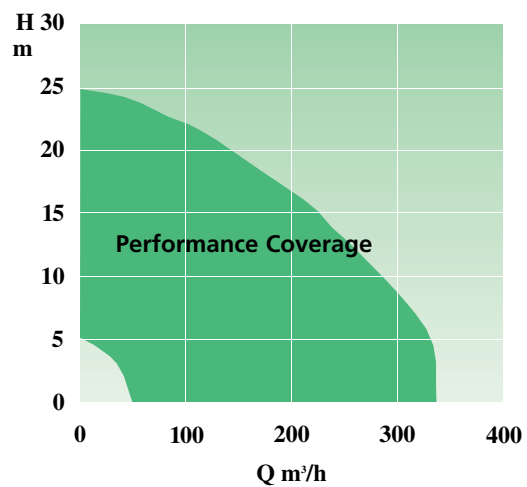
- Chopping and pumping of rejects
- Chip processing
- Pulp processing
- In mediums containing solids and which are difficult to pump
- Pump blocking situations



## Motor pump for dry installation

Type: MPTK-I - MPTKR-I

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

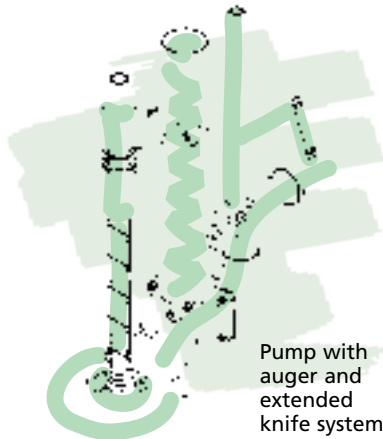
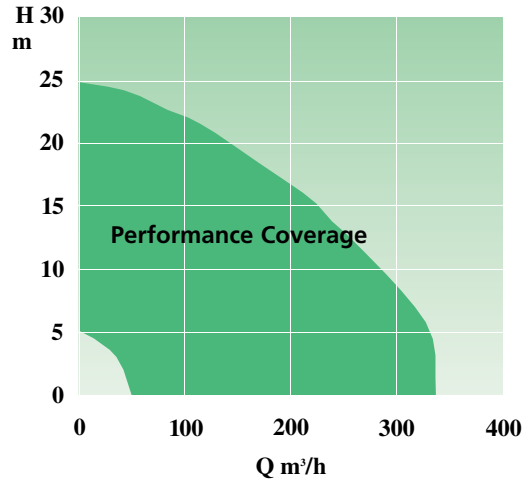




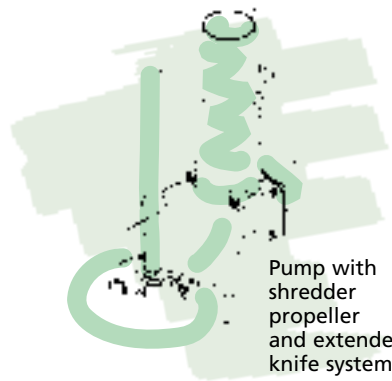
### Submersible pump

Type: DG-I - DGR-I

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



Pump with auger and extended knife system

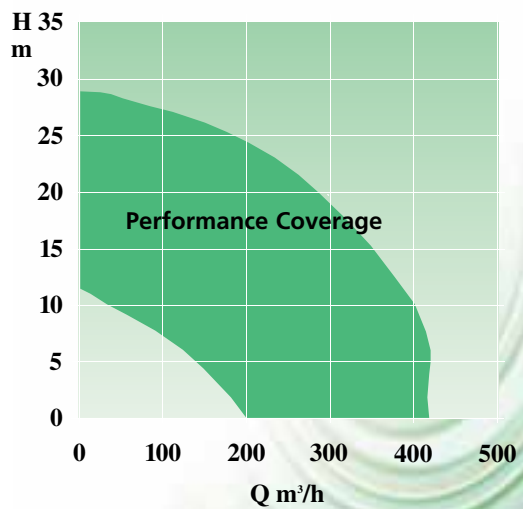


Pump with shredder propeller and extended knife system

### Long shaft motor pump for wet well installation

Type: MPG-I

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



# Submersible Mixers

## for effluent and process liquid handling

Landia offers flexible and strong mixing solutions to the pulp and paper industry. We have a wide well tested submersible mixer line ranging from 0.55-18.5 kW, and with propeller speeds ranging from 16-1500 revolutions per minute.

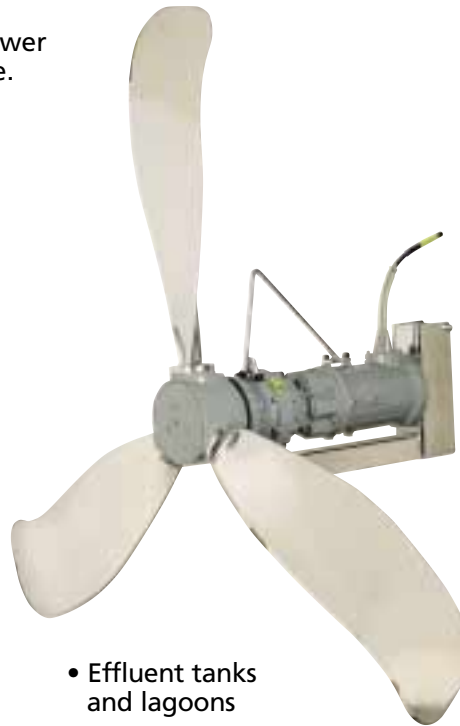
The Landia submersible mixers can be applied for:

- Homogenization in pulp and white water tanks
- Homogenization and flowmaking in effluent lagoons and tanks
- Mixing of chemicals

Landia submersible mixers outdo conventional solutions, optimize power consumption and reduce down-time.



- Pulp mixing
- White water tanks
- Effluent tanks and lagoons
- PM Chest and tanks



- Effluent tanks and lagoons



- Mixing of chemicals
- White water tanks

### Mixing of pulp

The Landia mixer POP-I is well-suited for pulp mixing. The advantages include:

- The low number of propeller revolutions - 150 or 300 rpm - ensures a gentle treatment of the pulp with only a minor risk of oxidation
- Low energy consumption. Tests prove that by applying a Landia POP-I mixer you can reduce the energy consumption by up to 50% compared with conventional, dry-installed mixers
- Easy and quick service. The mixers can be removed by only one person using the crane system
- Low noise level, since the mixers only operate submerged



## Landia Air Jet Submersible Aerators

### for oxidation of effluent

Self aspirating aerators with motors ranging from 3.0-18.5 kW. The pumps are available in cast iron as well as in stainless steel. Air capacity up to 460 Nm<sup>3</sup>/hr and oxygen transfer SOTR up to 16 kg O<sub>2</sub>/hr.

- Single or double ejectors
- The pumps are equipped with chopping system
- Easy to install
- Easy to maintain



Landia offers solutions and systems to pump and mix difficult liquids. We develop, manufacture and distribute pumping and mixing systems. Pumps to chop, shred, cut, mascerate, grind and comminute. Mixers to agitate, homogenize and create liquid currents.

Landia products are distributed worldwide. Our distributors offer consultancy and after sales service by Landia trained personnel.

Distributor:

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ISO 9001

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