NIOCOM PUMPS

# NIOCOM HYBRID CENTRIFUGAL PUMPS

## RANGE MST

High efficiency. Long life.
Low cost of ownership.

- HIGH EFFICIENCY
- CORROSION FREE
- LONG SERVICE LIFE
- LOW COST OF OWNERSHIP

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# CONSTRUCTION

## VOLUTE CASING

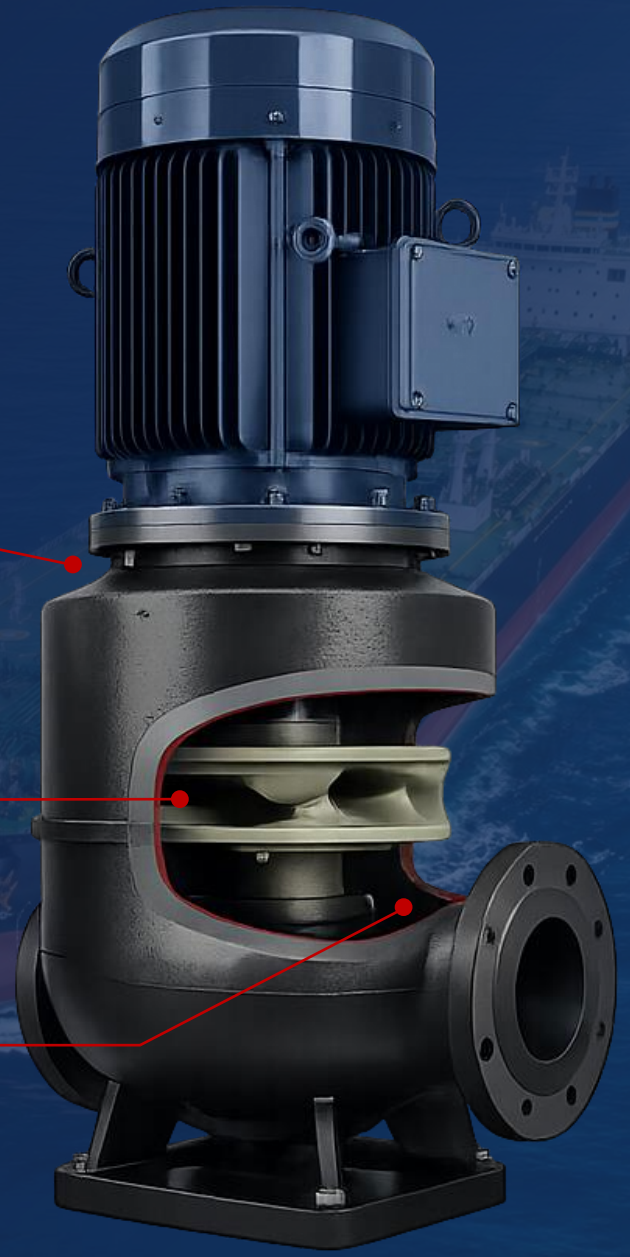
Made of cost-saving cast iron material with a special treatment of the surfaces which come into contact with the pumped liquid.

## IMPELLER

Made of a non-metallic structural composite.

## CASING COVER

Made of cost-saving cast iron material with a special treatment of the surfaces which come into contact with the pumped liquid.



# KEY BENEFITS

## EXTREME WEAR RESITANCE
Avoids enlargement of the impeller throttling gaps by wear.

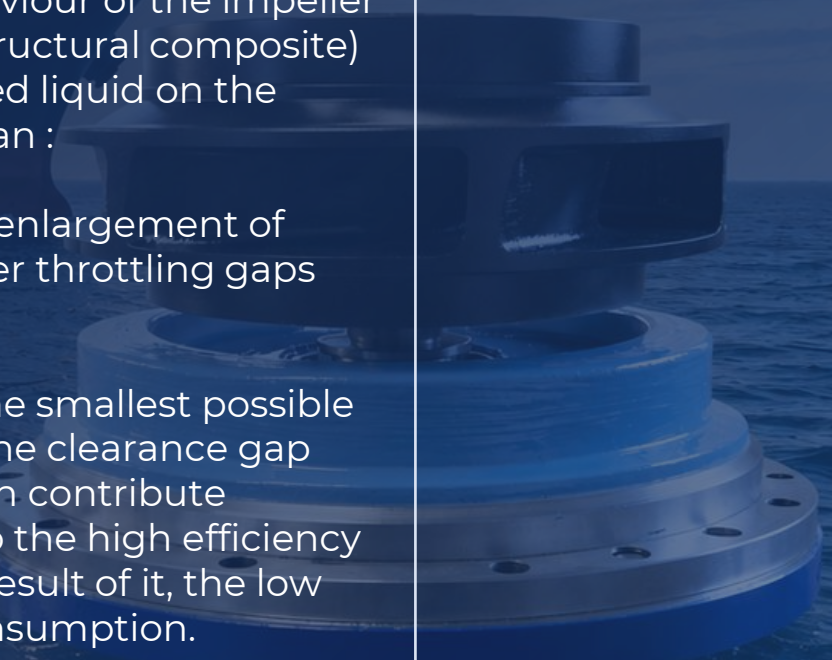
## MAXIMUM EFFICIENCY
Minimizes clearance gap losses, resulting in high efficiency and low power consumption.

## CORROSION FREE
No metallic surfaces in contact with the pumped liquid – no corrosion effects.

## LOW FRICTION LOSSES
Extremely smooth and hard surface
Reduces boundary layer thickness
To a minimum.

Conditional on the hardness of the surface-treated volute on the one hand (superior to each kind of cast iron material) and the behaviour of the impeller (made of a structural composite) in the pumped liquid on the other hand can :

- ✓ avoid the enlargement of the impeller throttling gaps by wear
- ✓ achieve the smallest possible losses of the clearance gap flow, which contribute likewise to the high efficiency and, as a result of it, the low power consumption.



# CASE STUDY – MV “ALANA“ Peter Döhle Schiffahrts KG

## Replacement of the Seawater Cooling Pump

### 2009

**Before replacement**
Seawater pump,
type MA 200-250
standard material

### 2013

**Replacement pump**
type MST 200-250 Hybrid-
after 20.556
operating hours


### 2026

**Replacement pump**
type MST 200-250 Hybrid-
after approx. 130.000
operating hours

- The hybrid pump runs without problems and without the need for spare parts
- There were no requests for spare parts up until today
- Still in operation.
  Feedback by New Owner
  24. July 2026

# FEEDBACK BY NEW OWNER

*"... This pump has been in continuous operation since the vessel was taken over and is running without issues. No spare parts have been required so far.*

*The pump operates for approximately 720 hours per month and is still in operation...."*


**MS " ALANA"** Schifffahrtsgesellschaft mbH & Co. KG
c/o Danz Shipping GmbH & Co. KG

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# THANK YOU
# FOR YOUR ATTENTION

www.niotec.gmbh