



Normblock Binero

Energy-efficient and corrosion-resistant – versatile application options thanks to thermoplastic corrosion protection coating

NORMBLOCK BINERO

With the new Normblock Binero series, SPECK Pumpen is expanding their innovative pump range and adding a new type of polyethylene-based thermoplastic corrosion protection coating to their extensive product range of cast iron, bronze and all-plastic pumps. The coating offers multiple application options, even for a variety of aggressive media.



COATING & MATERIAL

The whole housing of the Normblock Binero, i. e. all relevant parts in contact with media and parts at risk of corrosion, are 100 % coated which ensures not only permanent corrosion prevention but also optimum protection against aggressive media, wear and deposit build-up.

Corrosion in the threads is a thing of the past, as the thread for draining in the pump housing comes with a stainless steel thread insert.

The Normblock Binero series helps to protect swimming pools from rust ingress on the pump side – even when the pump hasn't been running for a long time.

The corrosion resistance has a positive effect on the efficiency of the pump: The permanently smooth structure of the surface of the Normblock Binero – even after many years – guarantees not only optimal flow conditions but also constant and efficient operating conditions.



The innovative coating offers versatile application possibilities, even for a wide range of aggressive media.«

HASSLE-FREE INSTALLATION & EASY MAINTENANCE

The handling during assembly of the Normblock Binero is very simple: Thanks to the process design, the motors of all pumps of the series can be removed without the need to disassemble them. The pumps can therefore also be easily installed in existing systems with difficult installation situations without having to remove the pipework.

Another highlight: The main dimensions are designed according to NF E 44-112 and DIN EN 733. This makes it easy to replace old cast iron or bronze pumps.

The plug-in shaft system makes it possible to remove or replace the motor for maintenance at any time, without having to completely disassemble the pump and without having to remove the mechanical seal.

EFFICIENT OPERATION & LOW COST

The series is equipped with a highly efficient IE5 class permanent magnet motor as standard.

The Normblock Binero can also be equipped with any commercially available motor type upon customer request and depending on the application. This not only offers maximum flexibility, but also has the advantage that rapid replacement is possible at any time.

In combination with a specially adapted external frequency converter of the customer's choice, it is possible to optimally control the different motor variants to suit the system requirements.

The high-quality all-bronze impeller, balanced to grade 6.3 in accordance with DIN ISO 1940, achieves the maximum attainable efficiency with the maximum diameter. In addition to considerable potential energy savings, this also results in significantly reduced life cycle costs.

APPLICATIONS & POSSIBLE USE

The innovative thermoplastic corrosion protection coating offers versatile application possibilities, even for a wide range of aggressive media.

Thus, the Normblock Binero, which has successfully proven its practicality in long-term tests, can not only be used in public swimming pools, but also in industrial plants, the process technology sector, shipbuilding and water supply and can easily withstand the pressures prevailing there.

A true all-rounder in terms of possible applications.



SPECK 

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Energy-efficient and corrosion-resistant –
A reliable partner even for high brine concentrations

BADU® Normblock Binero



Technical data at 50/60 Hz

Flow rate Q up to max. 440 m³/h
Dynamic head H up to bis 100 m
Water temperature t max. 75 °C

Maximaler Betriebsdruck

Pump casing p 10 bar

Speed variables 50 Hz n approx. 1450/2900 rpm
60 Hz n approx. 1750/3500 rpm

Types

Normblock Binero 32 up to 150

Flange

up to DN 150 compatible with EN 1092-2 PN-16
from DN 200 compatible with EN 1092-2 PN-10

Motor

Construction IM B 35
Protection class IP 55
Idle speed 1450/1750 rpm
2900/3500 rpm
Frequency 50/60 Hz
Voltage 50 Hz up to 2.20 kW: 230 V Δ/400 V Y
60 Hz up to 2.60 kW: 265 V Δ/460 V Y
Voltage 50 Hz from 3.00 kW: 400 V Δ/690 V Y
60 Hz from 3.60 kW: 460 V Δ
Class of insulation F
Cooling air temperature max. 40 °C

Motors



Standard motor

IE3 motor from 0.75 kW.
Advantage: very high grade of efficiency

> Special motors on request.



PM motor

IE5 motor.
Advantage: very high grade of efficiency