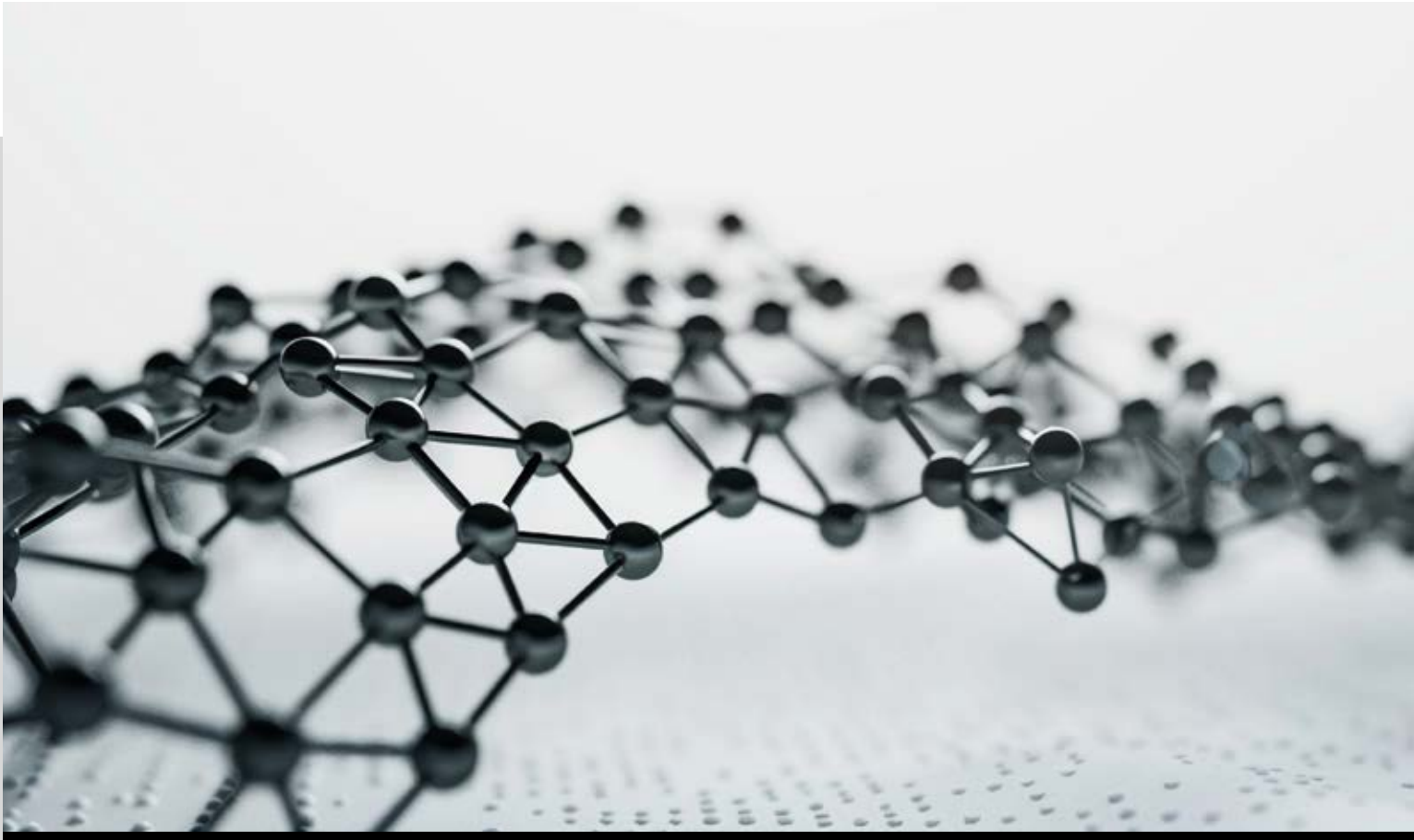
INTERPUMP GROUP



CARBON NANO TUBES TECHNOLOGY

Expanding the charging capacity of batteries plays an important role in implementing climate-neutral (e-)mobility

ADVANCED HOMOGENIZING TECHNOLOGY IN CNT APPLICATIONS

The large production scale of carbon nano tubes dispersion needs homogenizer piston pump.

The process starts with powder dispersion in a blend containing water or solvent.

The homogenizer breaks the long carbon nano tubes creating dispersion with the target to increase conductivity and to reduce the viscosity.

Through Interpump Homogenizer you can get a faster and more efficient way to reach the dispersion and production targets.



PLUS
- High volumetrical efficiency
- Innovative design of the liquid end for minimized sterilization time and to make more effective the CIP
- High reliability at full pression
- Low sound level
- Friendly maintenance of liquid end
- Validated for nano dispersion and emulsion
- Proven for high viscous products

GREEN SERIES | STAR LINE - Flow rate @ Pressure

MODEL HA/PA53	10.000 l/h @ 1.000 bar	9.000 l/h @ 1.200 bar	6.000 l/h @ 1.500 bar



PLUS
- User friendly
- Triplex homogenizer
- Reliable scale up from pilot to production line
- Very low noise level
- Innovative design of the liquid end for minimized sterilization time and to make more effective the CIP

ATOMO 3.0 - Flow rate @ Pressure

MODEL ATOMO 3.0	100 l/h @ 1.000 bar	100 l/h @ 1.200 bar	30 l/h @ 1.500 bar



PLUS
- High milling efficiency
- Reduction of maintenance costs
- Automatic regulation of grinding ratio
- Suitable for CIP & SIP
- Reduced complexity of the mechanical seal system

COLLOIDAL MILL - Flow rate @ Pressure

MODEL BMC006 UP TO 5,5 kW	3.000 l/h @ 6 bar
MODEL BMC037 UP TO 37 kW	12.000 l/h @ 6 bar
MODEL BMC055 UP TO 55 kW	25.000 l/h @ 6 bar

INTERPUMP PROCESS TECHNOLOGY

Expanding the charging capacity of batteries plays an important role in implementing climate-neutral (e-)mobility. Reducing the charging time of motor vehicles is just as important in order to increase their attractiveness and cost-effectiveness.

By using CNT in the batteries, the storage capacity can be increased by 15% compared to the current generation of lithium-ion batteries.

Interpump homogenizer has exclusive pumping system with mechanical seals. This technology allows to reduce mintenance and production cost.

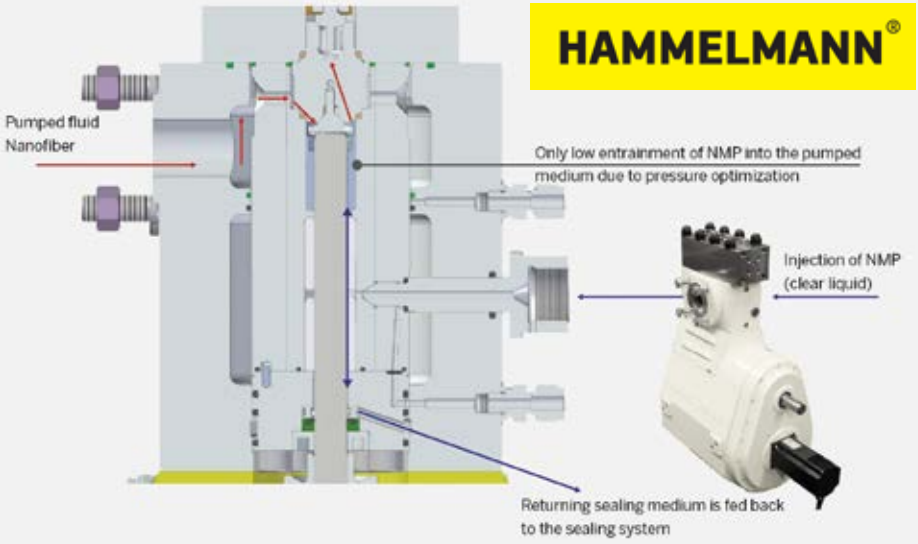


INTERPUMP HOMOGENIZER
HPH 800

Discharge pressure: 1000 bar [14.5k psi]
Flow rate: 11 m³/h [48 gpm]
with sealing liquid pump HAMPRO 70

INTERPUMP HOMOGENIZER FOR CNT APPLICATION POWERED BY BERTOLI & HAMMELMANN

Hammelmann was able to significantly increase the service life by using a pump with a special system-separating seal. For this purpose, a barrier medium consisting of NMP is injected into the dynamic labyrinth seal. The abrasive substances in the CNT pumped medium remain separated from the high-pressure seal leaving less room for damaging impact on the sealing technology.



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