

Bellin Rotary Lobe Pumps in Membrane Bioreactor (MBR)

BELLIN PUMPS S.P.A (ITALY) is one of the major manufacturers of Progressive Cavity Pumps and Rotary Lobe Pumps.



Bellin was established in Orgiano (Vicenza) by Mr. Giovanni Carlo Bellin during 1950's.

The two facilities cover a surface area of more than 8.000 mq.

High technology machineries are used in



the manufacturing process.

Bellin SPA with Progressive Cavity Pumps and Rotary Lobe Pumps provides pumping solutions in Waste Water Treatment Plants (primary and secondary sludge – digested and thickened sludge – waste activated sludge - dewatering feeding etc.) – biogas plants and industry. Especially in **MBR (Membrane Bioreactor)** applications, pumping requirements are very high.

Bellin Rotary Lobe Pumps type “PL” and especially the **new type “N_PL” with helical lobes (low pulsations design)** fully satisfy these requirements.

As they belong to Positive Displacement Pumps group, Bellin Lobe Pumps N_PL can grant a capacity in direct relation to pump speed and with practically non influence on working pressure: this permits to modify very quickly pump capacity in both cycles: filtration cycle and membranes countercleaning cycle. Instead of centrifugal pumps that have big problems to grant it; furthermore, with centrifugal pumps it is necessary to install valves in the plant to arrange it.

Bellin Lobe Pumps have also the high

advantage to grant reverse sens of rotation: this permit to use the same pumping circuit. Then, N_PL lobe pumps are “self-priming” and so they can be used also above the tank (negative suction). The new helical lobes design (type N_PL) grants a high reduction of vibrations-pulsations = less problems in the plant and in the filtering membrane.

Another big advantage in N_PL lobe pumps is the “easy maintenance” construction design: in fact, in order to dismantle lobes – wear plates and mechanical seals is simply sufficient to dismantle the frontal port without removing the inlet/outlet pipes.

For any other additional information on Bellin Lobe Pumps do not hesitate to contact our Sales Dpt.

Bellin S.p.A.

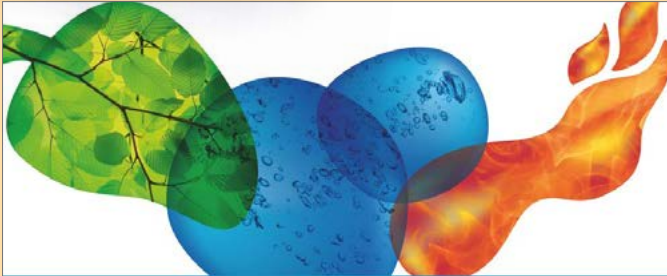
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**HELICAL LOBES
 REVERSIBLE
 EASY MAINTENANCE**

BELLIN ROTARY LOBE PUMPS:

- ▶ LOW PULSATION DESIGN
- ▶ REDUCED VIBRATIONS IN PIPING
- ▶ SELF-PRIMING UP TO 6-7 MT
- ▶ REVERSIBLE OPERATION
- ▶ EASY MAINTENANCE
- ▶ DRY RUNNING



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THE POWER OF EXPERIENCE
Since 1950's



BELLIN PROGRESSIVE CAVITY PUMPS ROTARY LOBE PUMPS

Your Partner in Pumping Solutions

QUALITY and RELIABILITY in WWTP – MBR – BIOGAS



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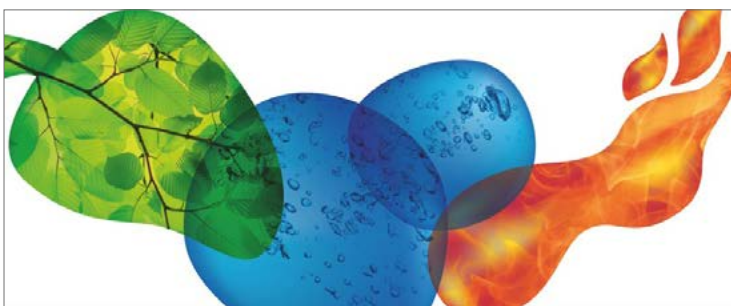
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