
Providing professional pump solution for one of Europe's largest pivot irrigation system

In France some 100 km south of Bordeaux, farmer Jean Claude Briest is the happy owner of one of the largest pivot irrigation system in Europe, and possibly in the world. The irrigation system is simply huge, irrigating his cornfield in an enormous 2 km diameter circle - with the help of innovative pump technology from Grundfos. A spectacular show can be watched when the large pivot irrigator sprays water from its 700 nozzles.

When the corn is harvested in the autumn, another interesting event takes place. Bird lovers from all over France travel to the cornfield to watch storks gathered there for a free meal before the long journey to northern Africa for the winter.

The Situation

The cornfield in Bordeaux covers an area of 310 ha land. Due to scarce precipitation from early April through to August, the field needs to be irrigated every third day to yield maximum output.

The exceptional task of covering this large area with water on a regular basis required an exceptional solution.

In 1997, the French company Otech with headquarters in Puyoo, France was contracted to undertake design and manufacture of pivot irrigation system. The project constituted a real challenge, as no irrigation specialist in the local area had ever dimensioned and produced such a large-scale pivot irrigation system before.

The system was designed from scratch and successfully installed and commissioned some two years later by Otech 40, a member of the Otech Group.

The Grundfos Solution

TOPIC:

Mr. Sylvain Giroult of Otech 40 chose Grundfos pumps for the job, because many years of partnership with Grundfos have convinced him that both service and support are in safe hands.

LOCATION:

France

COMPANY:

Bordeaux

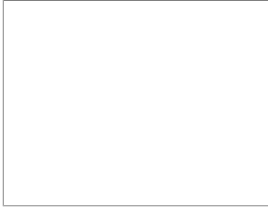
The pivot irrigation system is designed as a double pivot which means that it has two centre pivots pointing in opposite directions, each with a length of an impressive 965 m. The irrigation system is fed with ground water from 54 Grundfos SP submersible pumps. The SP pumps deliver around 300,000 m³ of water annually to the 70 nozzles of the pivots. It takes six days for the pivot to travel one full round and during that time, the other pivot is passing so that the crops are watered every third day.

Reliable pumps and a reliable partnership were important parameters when opting for Grundfos SP submersible pumps for the pivot irrigation system. The SP pumps are ideal for irrigation as they are made exclusively of corrosion resistant stainless steel components, thus offering high resistance to abrasives and corrosive agents.

The Outcome

The outcome speaks for itself. The pivot irrigation system works tirelessly and flawlessly in the cornfield, delivering water to the crops day in and day out thanks to the reliable and trouble-free operation of the Grundfos SP submersible pumps.

Related Products



SP

Búvárszivattyúk öntözéshez, vízellátáshoz,
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