

The Aswan dam



In the neighbourhood of the big Aswan Dam in Egypt, Marly has provided the vertical turbine pumps for a extensive agriculture irrigation system .

32 pumps, of various sizes, have been installed with a total power of 4.000 kw.

The project consist of collecting the irrigation water from 30 local deep-wells of 30' size. The Marly pumps are 14" and 22", series VP14 and VP22-400.

Those pump are sucking from about 30 m and are driven by a 75Kw motor located in the surface to grant an easy maintenance.

The hydraulic pump assembly is of semi-axial type with marine bronze impellers with a performance of 280 m³/h of flow and a pressure of **75 metri**.

On the right is shown the installation of the pump assembly model VP14/4, in that picture you can appreciate the suction bell with stainless steel strainer and then the 4 pump stages.



Marly Case History

On this picture is shown the final operation of motor connection and cabling electrical power supply.



In the following picture is shown the preparation phase of the collection water basin which will be fed from the said 30 vertical turbine Marly pumps.

From this basin the water will be distributed in the agriculture fields by the multistage pumps series "HV", in order to properly feed the "Pivot" irrigation systems.



In the picture on the right is shown the hydraulic part of the 22" pump in the phase of installation into the well.

This pump is equipped with one stage only with bronze impeller.



Following is shown the filling phase of the water basin made by the VP pump coming from the 30 wells.

Marly Case History



In that picture is shown the booting pumps, which suck the water from the basing to feed the pivot irrigation systems.

Those pumps are driven from 250Kw electric motors.



In the following picture we can appreciate the pivots systems which are working thanks to the water fed by the Marly pumps.

