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The invention relates to the installations for wind energy conversion into the mechanical one, which can be used for the production of electric power.

The rotor-type windmill contains a vertical shaft and arched blades. Each blade is made in the form of a rectangular frame with vertical supports and horizontal arched cross-members. The marginal vertical support of the frame is rigidly fixed to the shaft. On the other frame supports from the concave side lengthwise there are articulated flexible sails made of a strong tissue. The novelty consists in, that the arched blades are provided with moving consoles comprising rigid or moving shoulder. The mobile console rigid shoulder is connected to the end opposite to the articulated sail end, and the mobile consoles sleeve top and bottom are articulated to the last horizontal cross-members or to the vertical supports ends.

The technical result consists in increasing the service life of the windmill mobile parts.