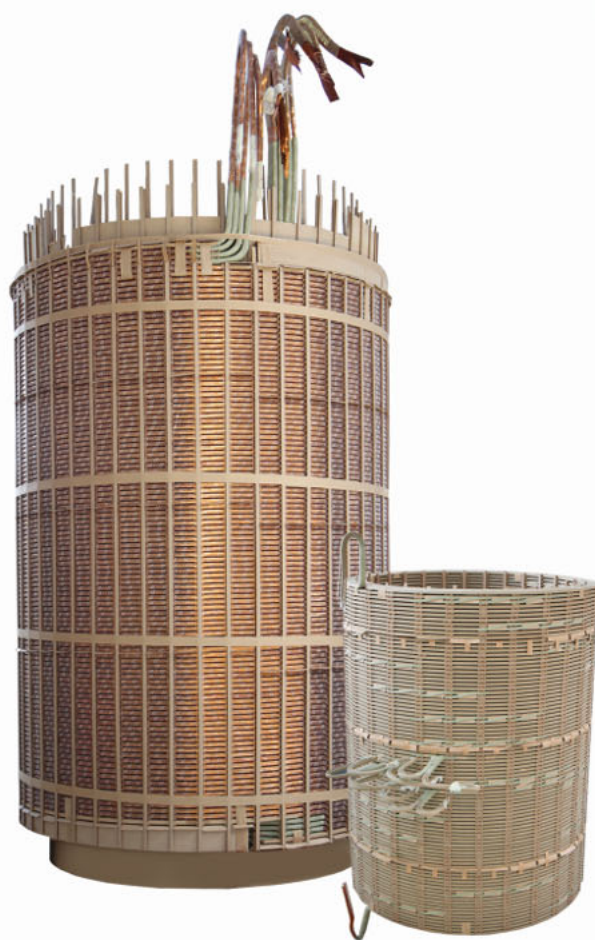


**آریا ترانسفو قدرت**  
**ARYA TRANSFO GHODRAT**

## Power transformer windings



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## Arya Transfo Ghodrat Co. in brief

Arya Transfo is a newly built manufacturing plant that manufactures high quality oil-immersed power transformers. The range of products in terms of voltage and power rating for power transformers are up to 420 kV and 550 MVA.

### Winding Facility

Transformer windings must withstand high electrical and mechanical stresses during the factory tests, normal operation conditions and also temporary short time abnormal conditions such as electrical faults or lightning. Therefore, the most recommended HV windings of power transformers are disc type and for LV coils are layer or helical type. The dust free winding shop has been equipped with computer controlled vertical and horizontal winding machines with adjustable mandrels supplied from Swiss manufacturer Tuboly Astronic AG.



The winding process is closely monitored by control system. The winding program inside can calculate all stop points and automatically executes the bending. Vertical winding machines are specially designed to wind transposed disc windings with single or multiple flat conductors with height up to 2,200 mm and weight up to 14,000 kg.



Horizontal winding machines are used to wind layer, helical and regulating windings with height up to 1,900 mm and weight up to 4,000 kg.



All those winding machines operated by a PC-supported machine control system which also allows transfer of winding data to the machine through the company network.

Drying and dimensionally stabilizing process act as a key role to guarantee safety and reliability of winding during life cycle.

Finally based on agreement the windings could be stored in special tanks filled with oil/dry air and shipped. Based on customer request we can deliver the windings of one phase as winding set, i.e. assembled LV/HV/Tap windings. We in ARYA TRANSFO GHODRAT Co. winding shop are ready to manufacture windings of single/multiple flat conductors based on design of our clients and on the other hand our team is ready to supply design as well as production services for our valuable customers.

