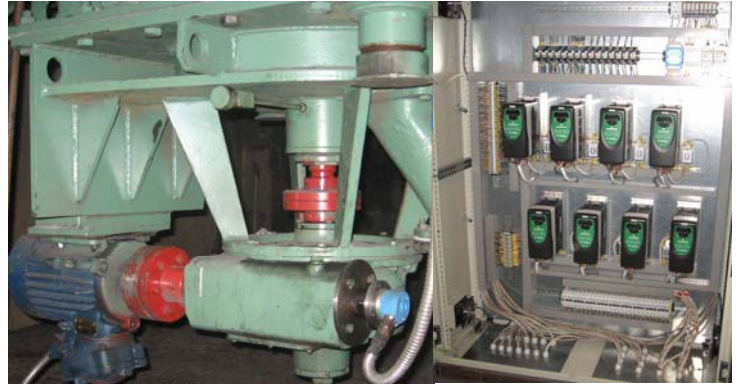


### 3.07. AUTOMATED CONTROL SYSTEM OF ELECTRIC DRIVES OF FUEL SUPPLY TO BOILER UNITS OF TPP

A modern automated control system of electric drives (ACSED) of fuel supply (pulverized-coal feeders) is offered, which allows to reduce fuel consumption by 3% at the expense of exact batching at the electric or thermal energy production; to improve maneuverability of boiler units of TPP; to reduce the costs on maintenance and repair of electric equipment of boilers; and to increase a service life of the main and auxiliary equipment of boiler units.



#### *Main technical specifications of ACSED:*

- two-, three-circuit system for regulating technological parameters of the boiler unit of TPP by speed and load moment of electric drives of pulverized-coal feeders;
- separated by groups the control of electric drives of pulverized-coal feeders;
- difference of electric drives of one group in speeds - no more than 1%;
- operating range of speed control of electric drives - 10:1;
- accuracy of speed control of electric drive within the group when changing the load moment - not worse than 1%;
- functional readiness to operate in ACSED of any level.

*ACSED of pulverized-coal feeders successfully operate at a number of boiler units in Chernihiv, Cherkasy and Darnytsya (Kyiv) TPP.*