



Technical Department



The department was founded in 1958.

The theme of research work at the faculty over the years has been devoted to improve the reliability of agricultural equipment, development of resource recovery technologies parts, advanced machinery and machinery for livestock and milking preparation center sites, the study of labor safety facilities in Northern Kazakhstan.

During the existence of the faculty 5 doctoral and 43 master's theses were defended, more than 100 copyright certificates on inventions, patents, prior and innovation patents RK were received, more than 2000 scientific articles were published by members of the faculty.

Research on the development and improvement of the mechanization of harvesting cabbage had been conducted by the group of scientists in the faculty since 1985, following which it was developed a universal cabbage harvesting machine NKM-1 available for selective and continuous harvesting cabbage early, medium and late varieties with simultaneous loading it near a moving vehicle.

In recent years faculty's scientists have achieved great results in the creation of tools for basic tillage with simultaneous application of fertilizers, seed drills for subsurface splash sowing crops with simultaneous application of fertilizers, the development of machinery for subsurface mineral fertilizers application in precision farming.

The scientific potential : 6 doctors of sciences, 23 candidates of sciences and 5 masters.

Directions of Research

- innovative technologies in the field of mechanization and automation sectors of agriculture;
- mechanization of production processes in crop and livestock production;
- improving technology of repair and restoration of parts of machines;
- improving technology plasma hardening of machine parts and tools.

Research is realized on:

- processing and marketing innovative plasma hardening ridges of whole rolled wheels of locomotives;

development of:

- planter for planting crops with simultaneous application of mineral fertilizers in with moisture resource preserving cultivation technology of crops;
- software and technical means of control and management of the automated process of differentiated application of seed and fertilizer in the adopted positioning.

Partners: The project "Improving the competitiveness of agricultural products" Ministry of Agriculture RK, "Regional Techno park in Astana" Ltd, "Kazakh Research Institute of mechanization and electrification of agriculture" Ltd, "KazAgroInnovation" JSC and etc.

"Design Office" - a structural unit of the "Center of agricultural machinery" was organized on the basis of the technical department together with the "Kazakh Research Institute of Mechanization and Electrification of Agriculture", "KazAgroInnovation" JSC, Ministry of Agriculture.

