

Laboratory of system of cars, developments of new technics and skilled designing



In 1992 on the basis of abolished «department of perspective development of new technics» the laboratory «Systems of cars and development of new technics» has been created. Then in some years the laboratory has been expanded at the expense of experts in designing of the trial equipment and has been transformed to laboratory «Systems of cars, development of new technics and skilled designing».

The basic directions of scientific and industrial activity of laboratory:

- Working out of modern means for the branch enterprises;
- Modernization of the traditional process equipment on the basis of introduction new power- and resource-saving technologies;
- Working out of perspective directions in creation of new, not having analogs in world practice, design decisions of the process equipment;
- Creation and designing of the robotized sites of manufacture;
- Carrying out of tests of the domestic and foreign equipment for definition of qualitative and consumer characteristics;
- The work, having an orientation on the decision of the problems connected with development of technical base of a meat industry.

Over the last 5 years in laboratory «System of cars, developments of new technics and skilled designing» the following process equipment is created:

- Installation for vertical cutting and a boning of carcasses of pigs of mark [Я8-ФБО](#) , prepared for cutting of carcasses and semicarasses of pigs, and also for a boning of parts of carcasses. The given unit of equipment is intended for equipment meat-processing plants (shops) of average and low power (meat-packing plants to 30 tons of meat in change).
- An advanced coagulator on processing of blood of lethal animals by productivity to 700 l/h

crude blood. The given equipment is intended for slaughter-houses and meat-packing plants of any capacity.

Now in laboratory works on creation come to the end:

- Skilled installation on the basis of the patented intensifying and power saving up technology for thermal processing of sausage products in the activated stream of the liquid energy carrier;
- Skilled installation on the basis of the patented intensifying and power saving up technology for thermal processing of meat products in water an energy carrier stream;
- The experimental robotized workplace for cutting of semicarcasses of pigs on cuts;
- A pre-production model of the modernized knife head for meat cutters, capable in the course of rotation on command to change an angle of attack of cutting edges to a plane of rotation of knives that will allow to make process of thin crushing completely operated and to reduce duration chopping minimum in 3 times;
- Experimental installation for vertical cutting and a boning of carcasses of a horned cattle.

Now the laboratory successfully cooperates with the enterprises: Open Company "KONSIT", Open Company "DEFT", Obninsk, Naro-Fominsk, other meat-packing plants and meat-processing plants.

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