

The invention relates to technical equipment for crushing polymer materials. It can be used in the chemical and construction industries, and in the processing of polymer waste.

Device for crushing polymer materials comprises a vertical cylindrical body from the loading and unloading openings mounted in the housing with a shaft bearing disc made in the form of moving knives and fixed to the inner surface of the body fixed flat blades.

Movable knives mounted height along of a shaft and are made in the form of sectors, the working surface is placed at an angle $\beta = 0-20^\circ$ to the horizontal, plane fixed knives are sectoral, placed height along the body and mounted at an angle $\alpha = 0 \dots 20^\circ$ to the horizontal, and the number of mobile and fixed knives, mounted in the same plane, defined as $n \geq 2$.

The use of proposed constructive device would improve the quality of crushing of material and significantly improve its productivity.