

The invention relates to the field of mechanical engineering and can be used for dressing small parts of instrument-making industry, optical and mechanical production of radio and electrical industries. A nozzle for abrasive jet machining comprises a body with inlet and outlet openings, wherein the body is provided with two balls housed therein with a minimum clearance and separating it into a receiving chamber and a discharge chamber, which are interconnected with an opening with adjustable cross section, wherein the ratio of the squares of diameters of balls corresponds to the expression

$$d^2 / D^2 = 0.4 \div 0.6,$$

where d - diameter of smaller ball;

D - diameter of the larger ball.

The outlet is made in the form of a supersonic Laval nozzle. Through use of the nozzle the generation of pulsating jets with possibility of variation of the frequencies in a wide range is achieved, thus expanding the technological capabilities of machining parts, namely increasing processing performance by increasing the amount of abrasive grains that join a jet of compressed air.