

Device for machining of brittle materials consists of mounted on power shaft of machining tool in the form of a disk with the inserts located on periphery with cutting elements attached from the back side of impeller disk and a motionless casing in the form of a "volute". For increase efficiency of removal of fine-dispersed dust and shavings from zone of machining, reduction of dusting of workplaces the casing which covers inserts of the machining tool has a drum included in the impeller ferrule, and in the disk of machining tool under inserts are made apertures that pass into the channels between impeller blades with inclination toward the disk in the direction of movement of air-dust flow formed by impeller.