

This invention relates to piston machines with parallel axles of the shaft and the cylinders. The pneumatic motor has a body with a rotor wherein output shaft is placed. In the cylinders coupled pistons with double action are placed, with rollers. At the periphery of the rotor there are right and left screw slots, the side surfaces of those are connected by concentric surfaces. The rollers are placed in screw slots and the pistons interact with the body with possibility of axial motion. The centers of the distribution channels are in planes formed by the axles of concentric surfaces and the long axis of the output shaft. This invention promotes increase of torque, decrease of weight and simplification of the design of the pneumatic engine.