

Abstract

Displacement machine for compressible media

The displacement machine for compressible media with rotors, which are configured as profiled bodies (4) and whose profiles engage with one another in the manner of gearwheels during rotation and run without contact relative to one another, each of the shafts (3) of the rotors (4) being driven by its own electric motor (6) and the angular positions of the shafts (3) being determined by synchro resolvers (8), by means of which the motors (6) are electronically synchronized, the shafts (3) being equipped with gearwheels (7) for emergency synchronization, is characterized in that at least one of the gearwheels (7) is directly connected to the rotor of the synchro resolver of its shaft (3) and both together are releasably connected as a unit to the shaft (3).

Fig. 1