

ABSTRACT

DISPLACEMENT TYPE FLUID MACHINE

In order to provide a displacement type fluid machine for reducing a fluid loss of a discharge process as much as that of a scroll fluid machine, easily
5 prepared than the scroll fluid machine, in the displacement type fluid machine wherein a shaft is gyrated in a hollow cylinder whose section shape comprises a series of curves so that a working fluid is discharged from a plurality of discharge ports, a shaft angle θ_c of a
10 compression process of each working chamber is given by the following algorithm:
$$(((N-1)/N \cdot 360^\circ) < \theta_c \leq 360^\circ \text{ (where, N is the number of threads)}).$$

(Figure 1A)