

ABSTRACT

Disclosed is a vacuum pump assembly with an improved process by-product holding capacity, including a front bearing plate (1), an upper casing (2), a lower casing (3), a long rotor (4), a short rotor (5), and a rear bearing plate (6); the long rotor(4) and the short rotor(5) rotate
5 about their respective rotary shafts in opposing directions, axes of the rotary shafts of the long rotor(4) and the short rotor (5) being set parallel to each other; the multiple stages of rotor elements of the long rotor(4) and the multiple stages of rotor elements of the short rotor (5) mesh with one another correspondingly; storage grooves (43, 54) are set on non-critical surfaces of rotor elements when meshing with one another. The disclosure improves process by-product holding capacity and
10 effectively prevents pump jamming and wear caused by adhesion of the process by-product.

[Fig.1]