

Development of the vacuum pump which operates in an extensive pressure range



Name	YABUKI Masuhisa	E-mail	yabuki@tsuruoka-nct.ac.jp
Status	Associate Professor		
Affiliations	JSME (The Japan society of Mechanical Engineers) and The Vacuum Society of Japan		
Keywords	Vacuum pump, Rarefied gas, Roughness model		
Technical Support Skills	<ul style="list-style-type: none"> • Flow analysis of flow molecular region • Molecular Flow analysis of Turbo-molecular pump 		

Research Contents Development of the vacuum pump

【My research seeds】

- Pumping performance gain of the high vacuum region of a Turbo-molecular pump.
- Pumping performance of the low vacuum region of a screw slot type vacuum pump.
- Research on the vacuum pump which can operate from atmospheric pressure to a high vacuum region.
- Study of a surface roughness model.

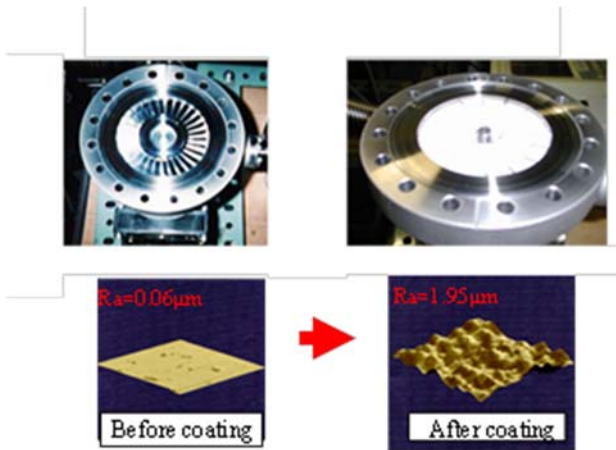


Table.1 SEM Picture

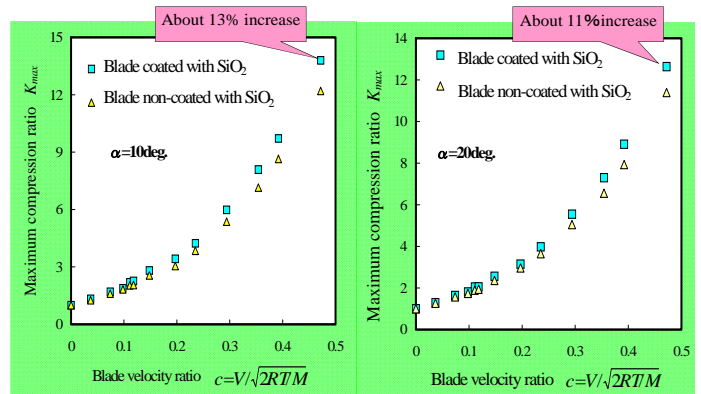


Fig.1 Comparison of the pump which performed the surface treatment, and the pump which has not been given

Available Facilities and Equipment
