

Flow experiment using with a hot-wire anemometer with arbitrarily shaped probe



Name	KENCHI Toshiaki	E-mail	kenchi@hakodate-ct.ac.jp
Status	Associate Professor		
Affiliations	The Japan Society of Mechanical Engineers		
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Research Contents

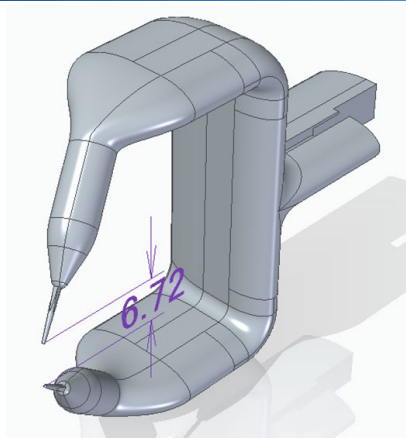


Fig.1 3D CAD Modeling



Fig.2 3D printer modeling

- Measurement of extremely thin velocity boundary layer that is difficult to measure.
- Design sensor geometry for the object to be measured using a 3D printer.
- Move the sensor in units of -1 micrometer to obtain a detailed velocity distribution.

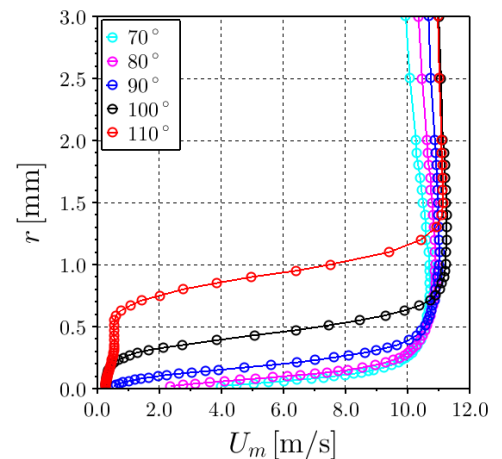


Fig.3 Velocity boundary layer on cylinder surface (stagnation point at 0°)

Available Facilities and Equipment

Hot-wire anemometer (self-made)	
Laser light source for visualization	