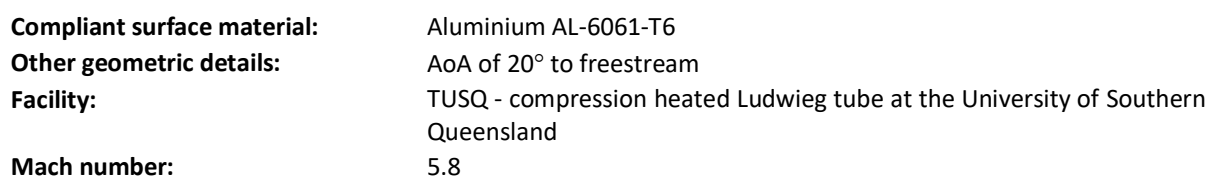


General Labels

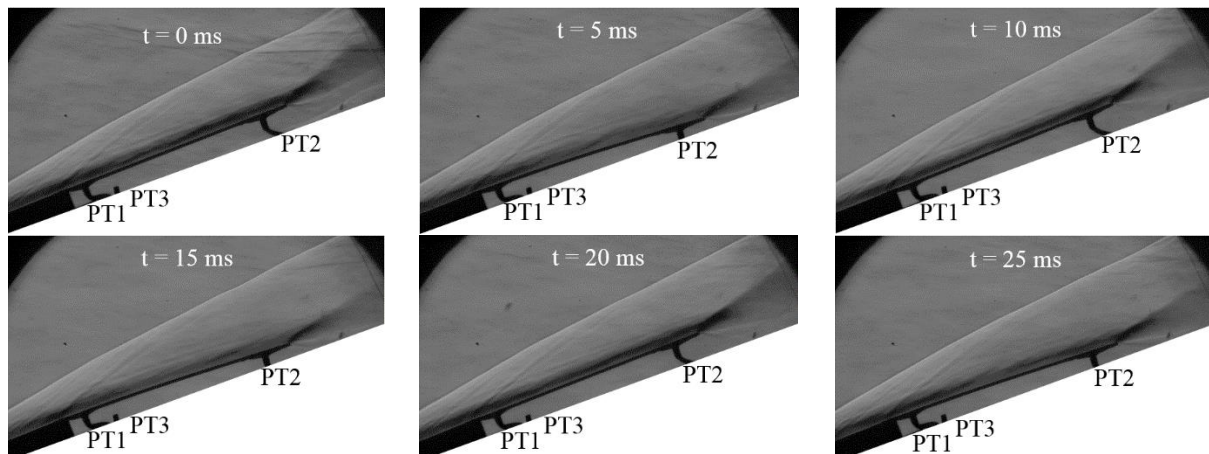


HIGH-SPEED FSI DATABASE– CASE: 01-2020 v1

Hosted by UNSW Canberra

Test gas:	compression heated air
Test flow characterisation:	calculated from stagnation pressure history in nozzle reservoir + nozzle area ratio with viscous correction
Total pressure [kPa]:	1000
Total temperature [K]:	580
Freestream pressure [Pa]:	775
Freestream temperature [K]:	75
Model wall temperature [K]:	300
Unit Reynolds number:	7160000
Flow duration [s]:	0.2
Test flow (ducted or free jet):	Free-jet
Flow starting:	diaphragm burst at nozzle throat to start nozzle
Model insertion:	Model in situ
Data sets:	high-speed schlieren video history (flow field structure), high-speed schlieren video history (displacement), Pressure histories from 2 discrete sensor

Example Data



Publications and Contact Info

Publications:	Currao GMD, Neely AJ, Buttsworth DR, Gai SL (2017) Hypersonic Fluid-Structure Interaction on a Cantilevered Plate, 7th European Conference for Aeronautics and Space Sciences (EUCASS).
Date Experiment performed	2017
Date Entered:	May 2019
Entered by:	Gaetano Currao
Contact email:	g.currao@adfa.edu.au

Other notes: