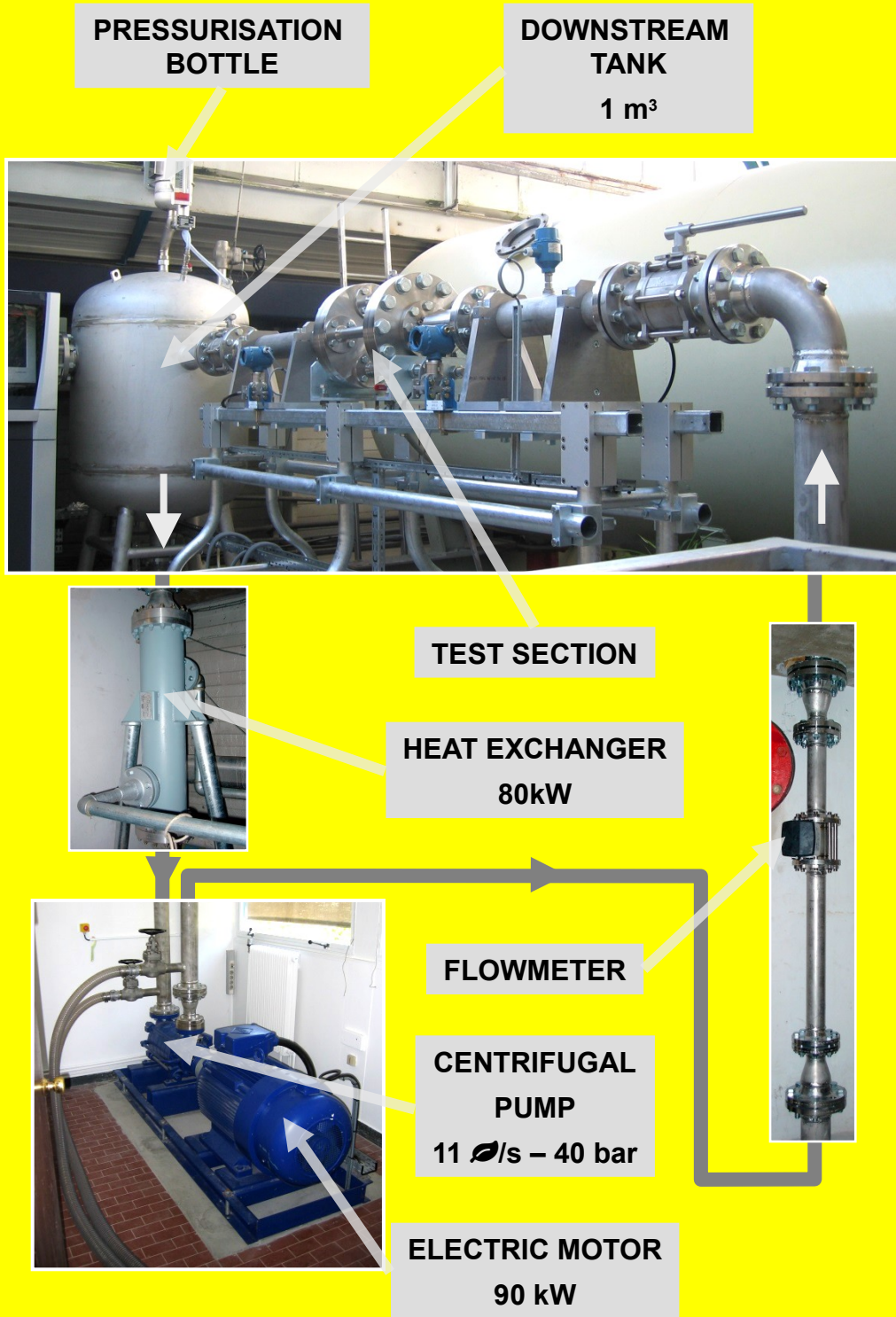


# Experimental activities on cavitation erosion at LEGI

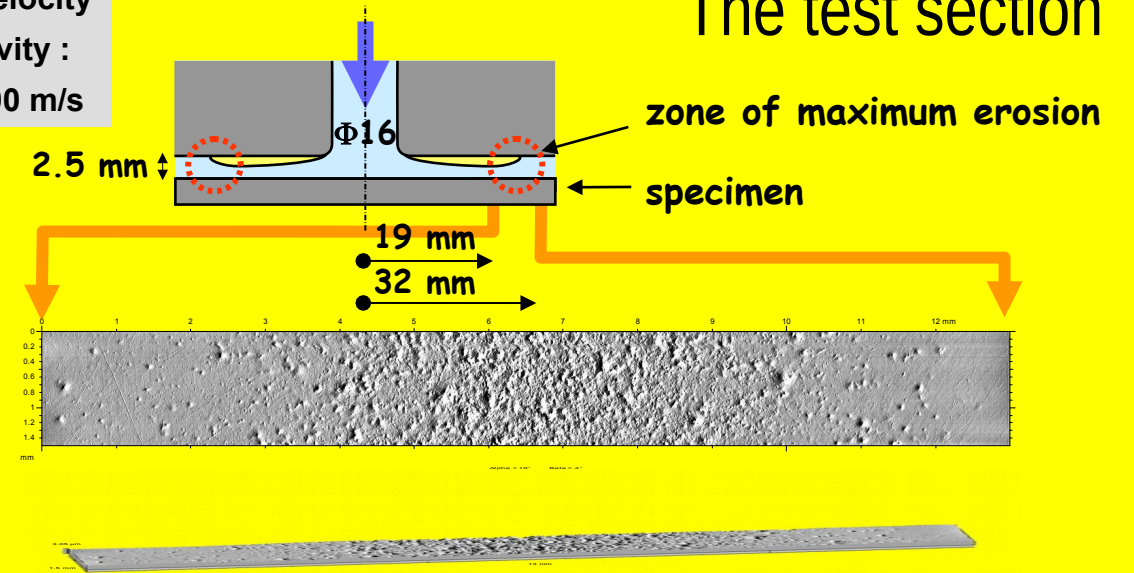
## The PREVERO facility



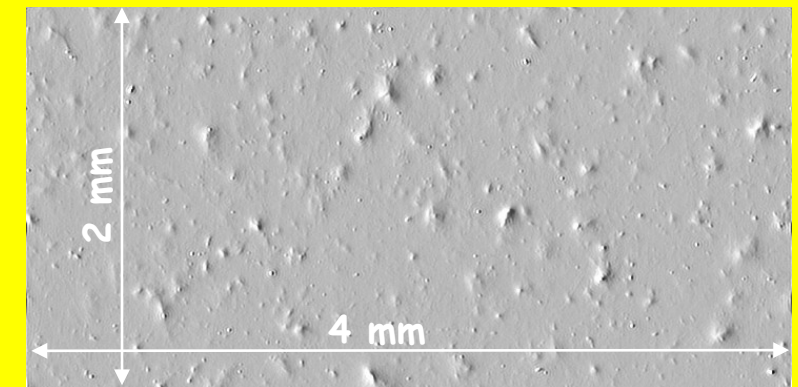
J.P. Franc "Incubation time and cavitation erosion rate of work-hardening materials"  
Journal of Fluids Engineering, February 2009, Vol.131, 021303, pp.1-14

Flow Velocity  
on cavity :  
up to 90 m/s

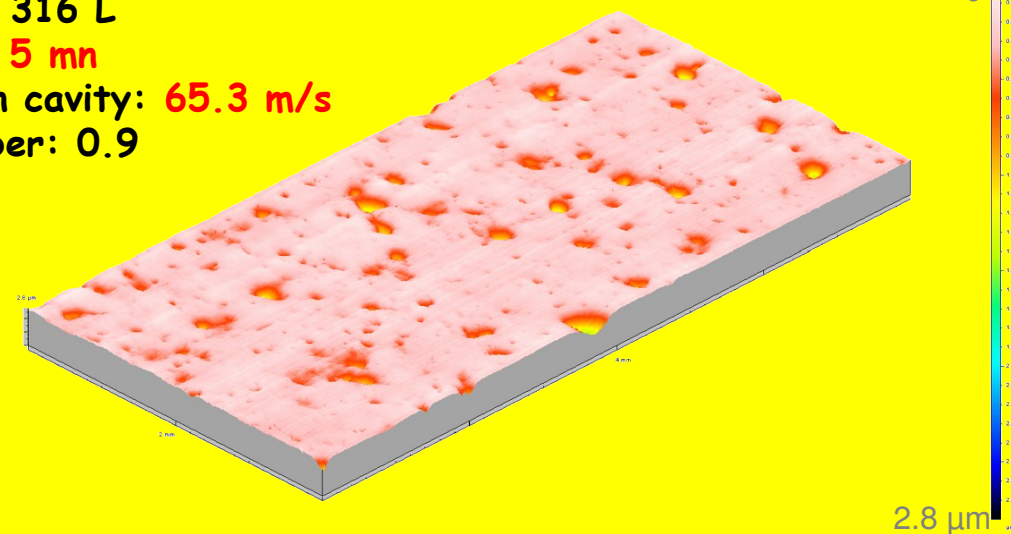
## The test section



## Pitting tests

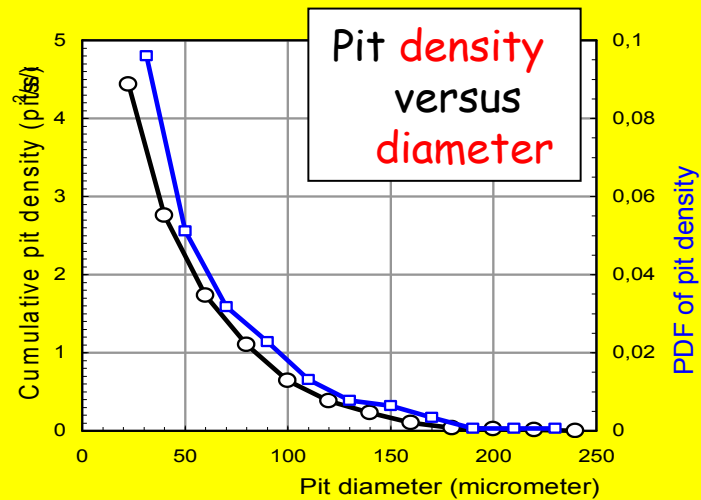


Stainless Steel 316 L  
Exposure time: 5 mn  
Flow velocity on cavity: 65.3 m/s  
Cavitation number: 0.9

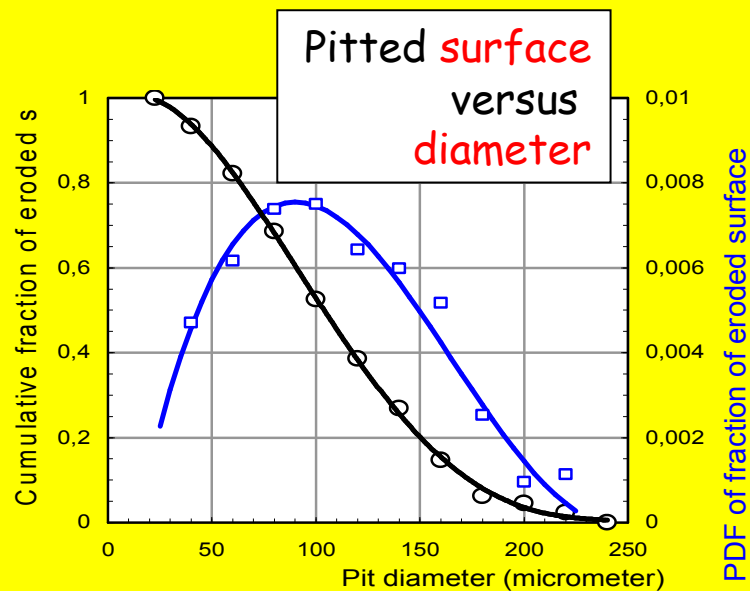


# Experimental activities on cavitation erosion at LEGI

## Pitting tests

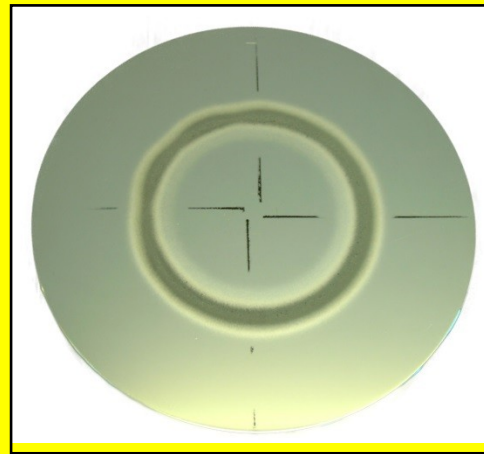


Cumulative distribution and probability density functions of pit density per unit time and unit surface area.  
 (Pitting test N°2 - cavitation number: 0.90 - velocity on cavity: 65.3 m/s - total number of pits: 797 - analysed surface: 59.9 mm<sup>2</sup>)



Cumulative distribution and probability density functions of 1 fraction of eroded surface.  
 (Pitting test N°2 - cavitation number: 0.90 - velocity on cavity: 65.3 m/s - total number of pits: 797 - analysed surface: 59.9 mm<sup>2</sup>)

## Mass loss tests



**Stainless Steel 316 L**  
**Exposure time: 104 h**  
**Flow velocity on cavity: 65 m/s**  
**Cavitation number: 0.9**

