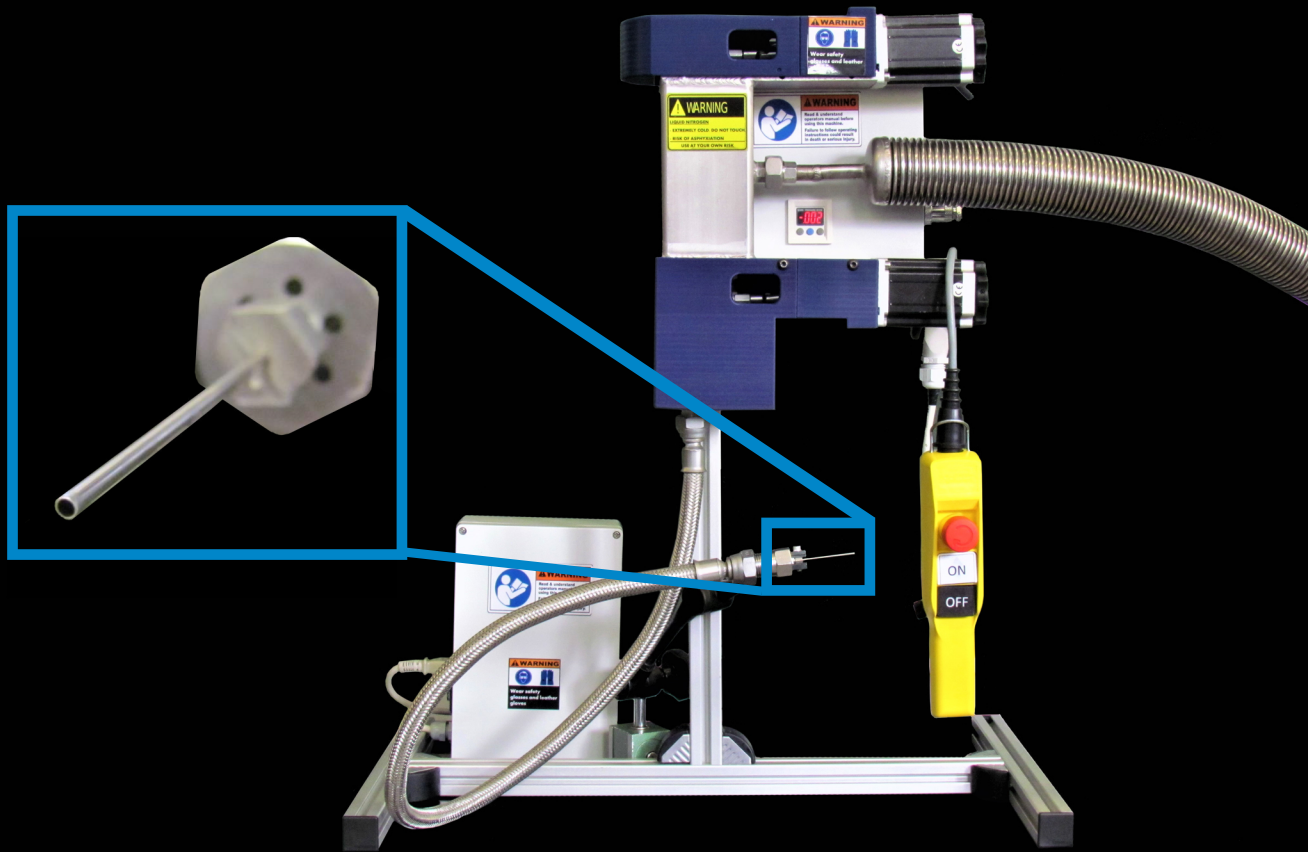


Prototype of SusCryMac System - Liquid phase separator

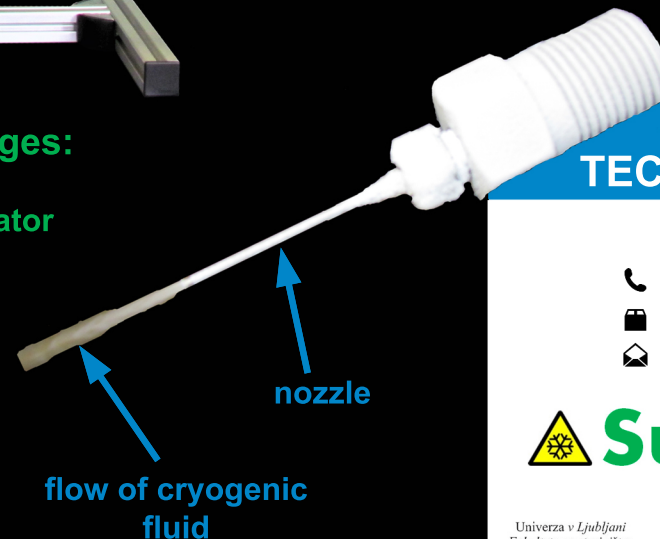


- > system for the delivery of liquid cryogenic fluid to the machining tool or to other application
- > system separates fluid and gas phase of cryogenic fluid
- > adjustable flow through the nozzle
- > system can be adapted to different applications
- > provide low flow rates of liquid phase flow
- > system is easy to use



The newly developed system has following advantages:

- > is autonomous and does not need computer. It is microcomputer controlled directly on the phase separator
- > besides the temperature, now the phase separator has integrated novel nitrogen phase sensor that is used to control the gas phase evacuation. Thus we get more stable separation.
- > for liquid phase control instead of ON/OFF valve, now there is integrated the proportional valve with which you can control the exit LN2 flow to the nozzle (flow rate - consumption)
- > now it is integrated also the pressure sensor that gives the digital information about the pressure on the nozzle



CHAIR OF MACHINING TECHNOLOGY MANAGEMENT

izr. prof. dr. Franci Pušavec

+ 386 1 47 71 211

+386 1 4771768

franci.pusavec@fs.uni-lj.si

 **SusCryMac**



KATEDRA ZA
MENEĐŽMENT
OBDELAVNIH
TEHNOLOGIJ

