



# Article review

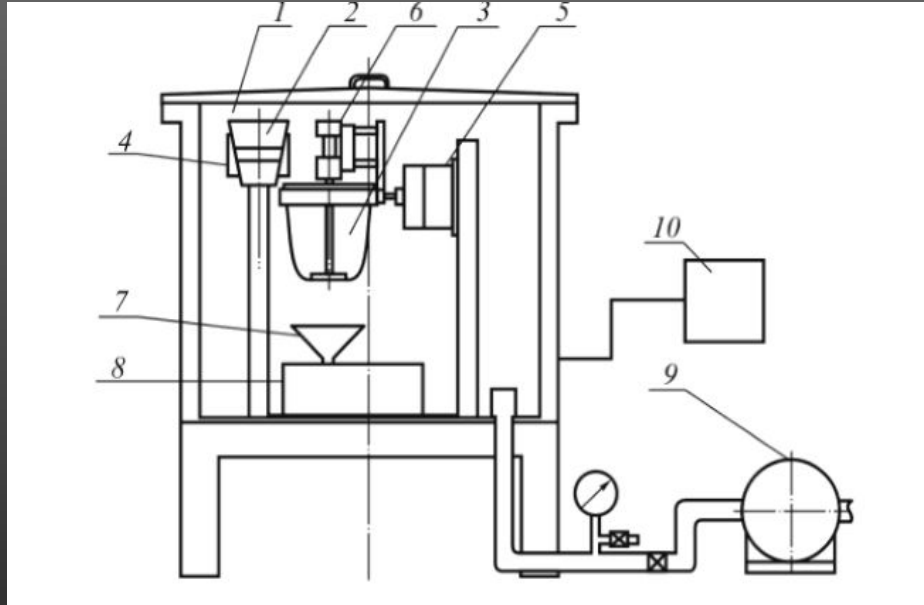
GETTING A TWO-COMPONENT COLD-CAST PRODUCTS  
IN POLYURETHANE SILICONE MOLD IN A VACUUM



# Motivation

- Approach to obtain high quality product
- Sequence of vacuum casting stages
- Dependence between viscosity and degassing time of polyurethane

# Vacuum casting equipment



1. Vacuum chamber
2. Container
3. Container
4. Dosing unit with electric motor
5. Filling unit with electric motor
6. Mixing unit with electric motor
7. Funnel
8. Silicone mold
9. Vacuum pump
10. Control module

# Vacuum casting equipment

Renishaw 5/01 vacuum casting machine

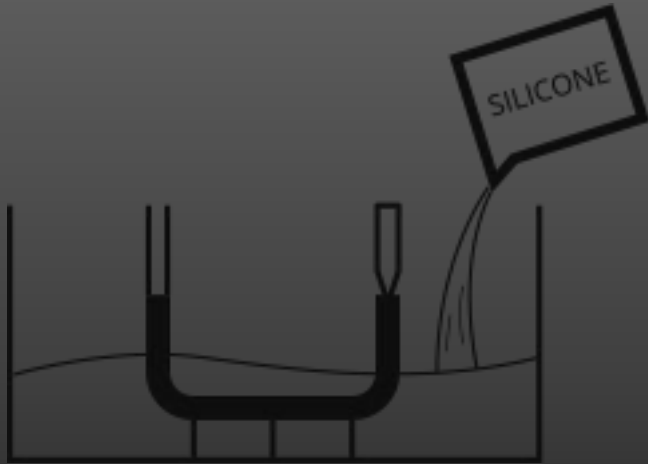




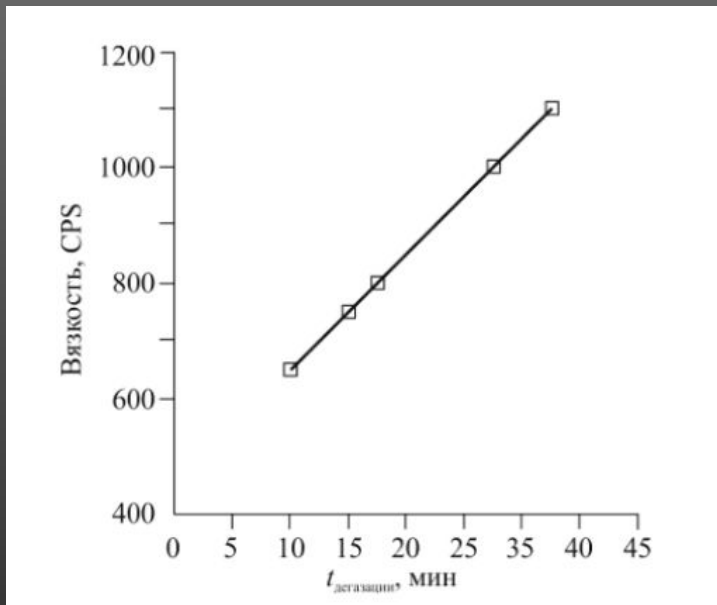
# Stages of vacuum casting

- Filling containers with plastic components(basis and hardener).
- Preliminary degassing process for plastic components.
- Mixing plastic components by mixing unit.
- Filling in funnel by filling unit.

# Master model



## Dependence between viscosity and degassing time of polyurethane



Results of experiment with polyurethanes that have different viscosity parameters.

**Thank you for listening.**