

# *DEVELOPMENT OF PORTABLE EXTRUSION MACHINE*

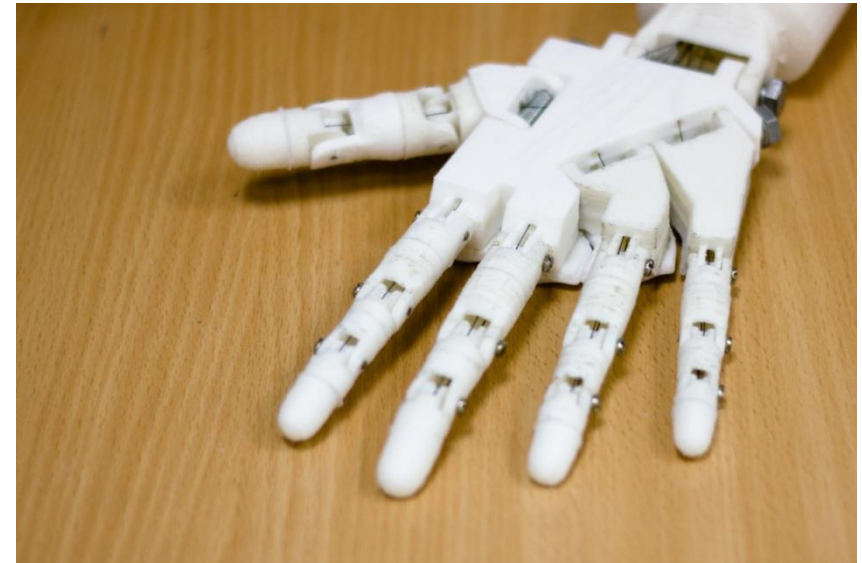
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# STRUCTURE

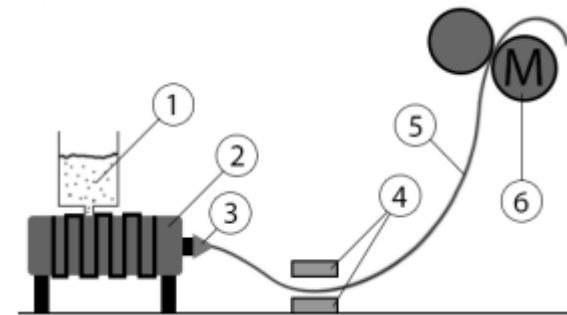
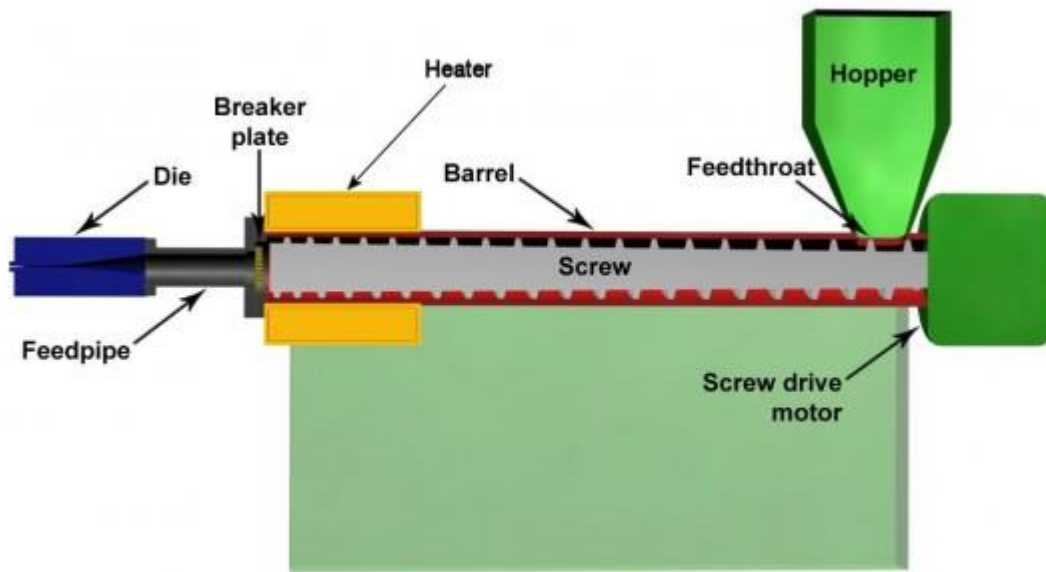
- 3D-PRINTING
- APPLICATION FIELD
- DESIGN AND FUNCTION OF MACHINE
- STRENGTHS AND WEAKNESSES
- MARKET PROSPECTS

# WHAT IS 3D-PRINTING?



# APPLICATION FIELD

- ***Rapid prototyping;***
- ***Rapid manufacturing;***
- ***Mass customisation;***
- ***Domestic and hobbyist use;***
- ***3D printing services;***



1 – Bunker; 2 – Extruder; 3 – Nozzle;  
4 – Transducers; 5 – Filament; 6 – Motor.

# STRENGTHS AND WEAKNESSES

- + simplicity;
- + price;
- + accuracy;
- + high production capacity;
- non-universalize spare parts;
- Price in comparison to desktop extruders.

# MARKET PROSPECTS

- Recycle plastic waste;
- Cheap filaments for 3d-printers



# CONCLUSIONS





Thank you for attention!

Any questions?