



AIMPLAS

Pharmaceutical Developments by hot melt extrusion (HME)

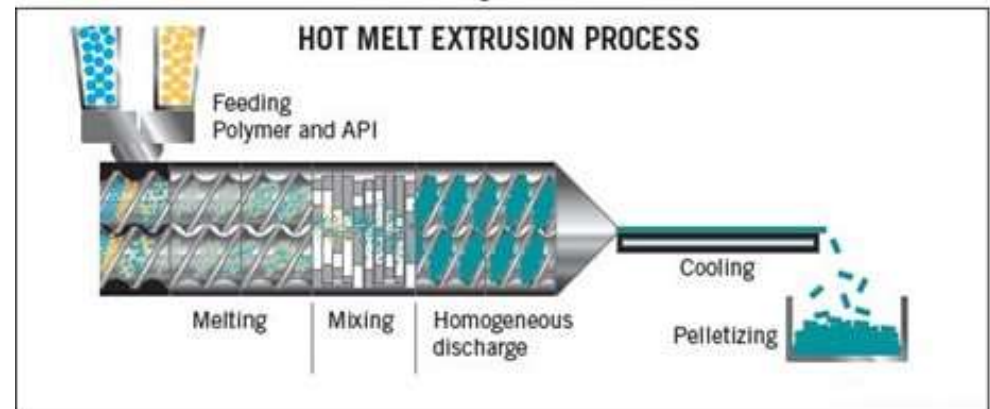
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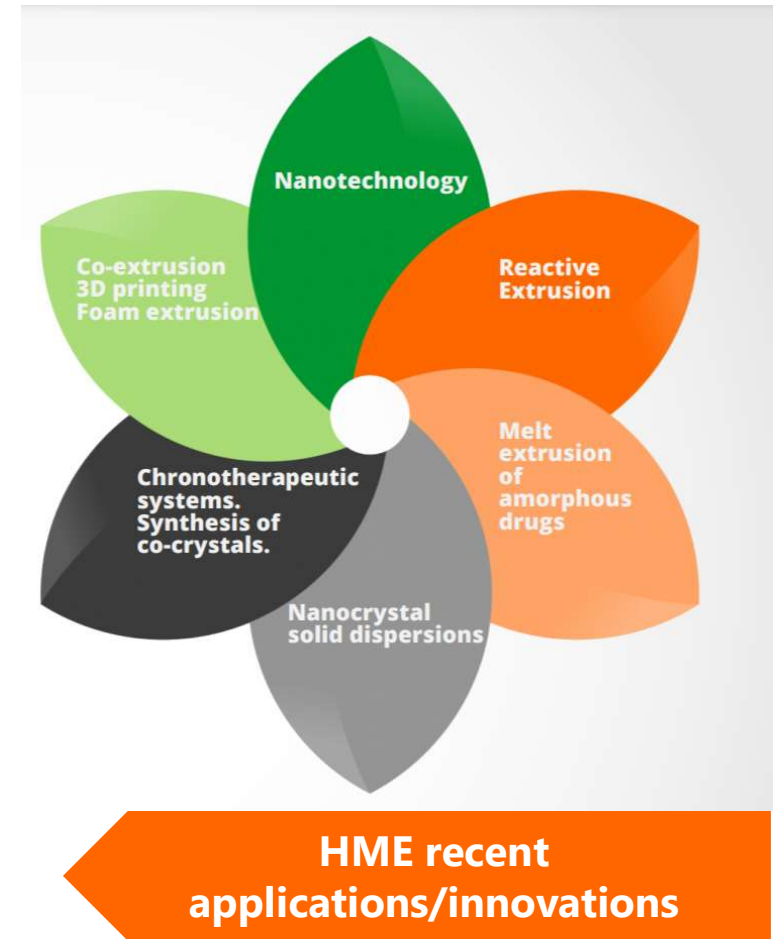
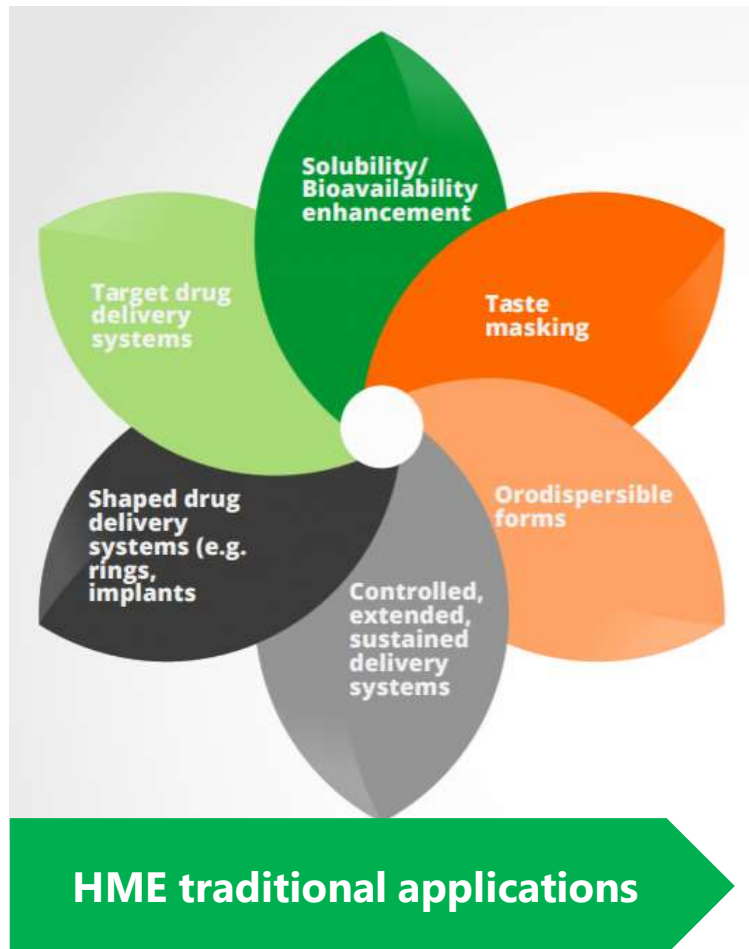
Hot Melt Extrusion advantages

Hot melt extrusion, has several advantages over other established formulation approaches:

- the absence of solvents
- few processing steps
- improved bioavailability as compared to existing dosage forms.
- It is a continuous process



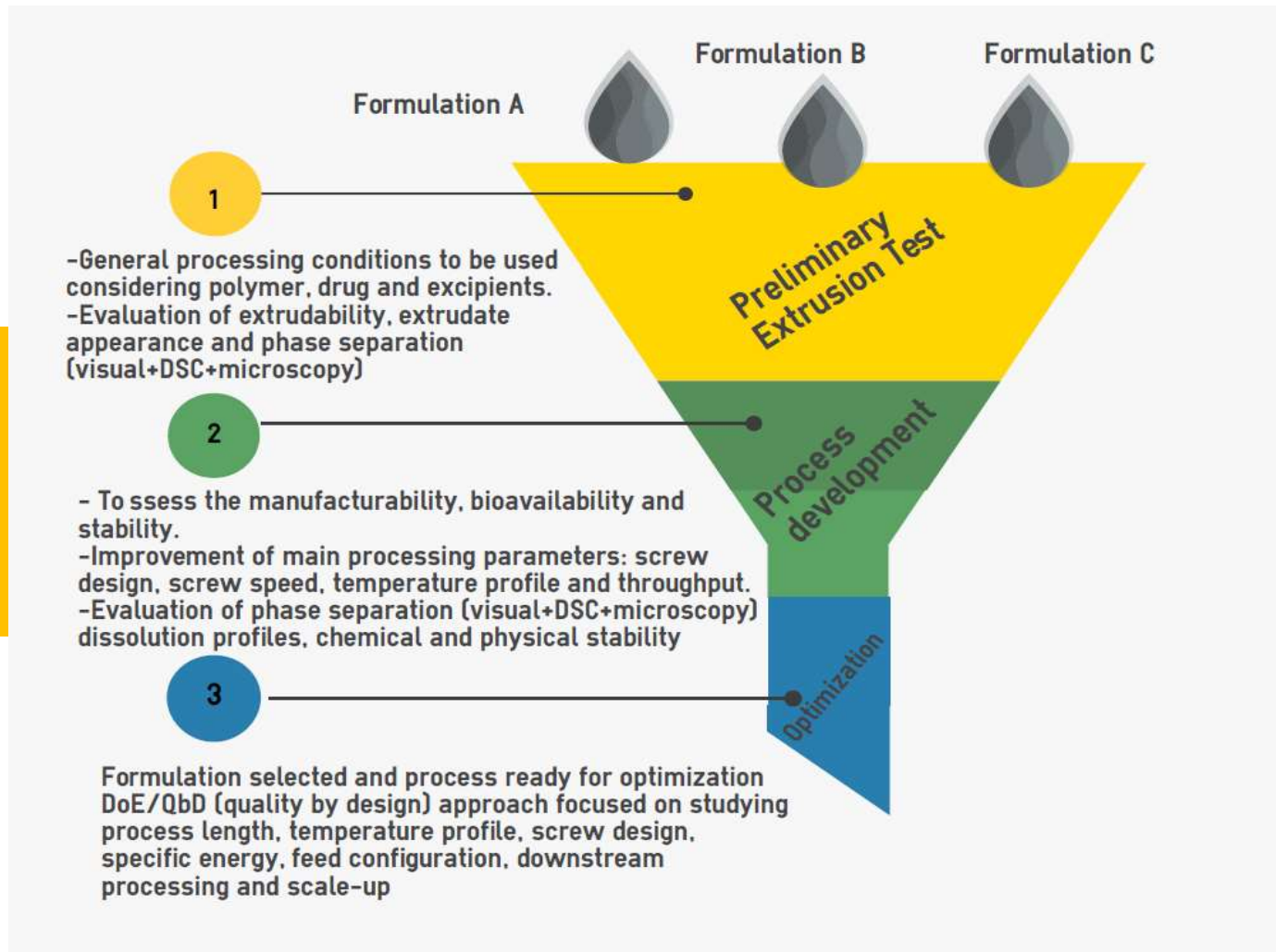
HME Applications



AIMPLAS ZSE 18 HP-PH extruder (qualified in accordance with the latest GMP guidelines, including the control system) in a cleanroom ISO 7/GMP



AIMPLAS working protocol



AIMPLAS' developments using HME

Nutraceutical products



- Vitamins/Antioxidants (Phenolics/flavonoids (e.g. tocopherols and tocotrienols/ Resveratrol and quercetin)



- Osteoarticular (minerals combined with vitamins)



3D printing developments

- Rods for bone regeneration
- Rods with APIs

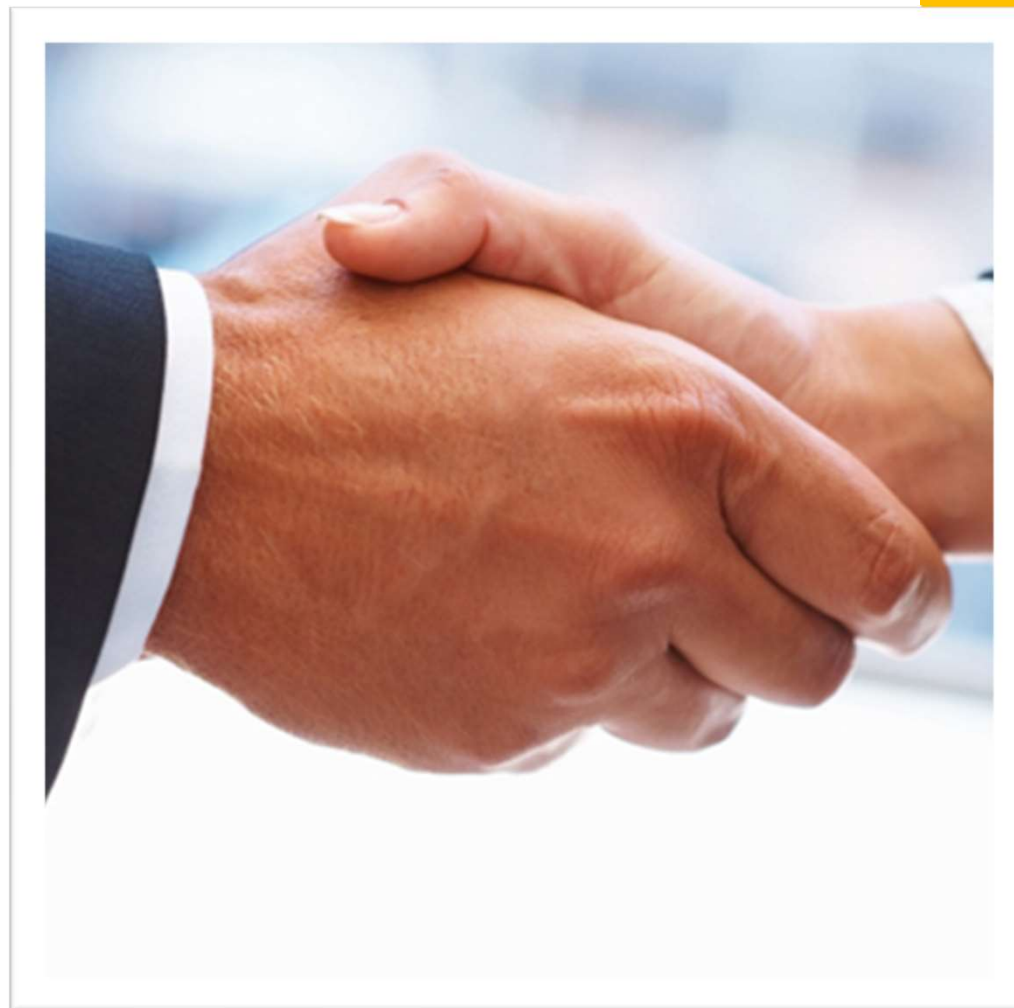
Pharmaceutical products



- Painkillers (e.g combination of paracetamol, aspirin or ibuprofen, plus an opioid).
- Pain relief (e.g. Tapentadol, Hydromorphone).
- Insomnia (e.g. zolpidem)
- Antifungal (e.g. posaconazole).
- Dyslipidemia (e.g. fenofibrate)
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How can we work together?

1. We maintain confidentiality but to make you feel safe, we sign an NDA.
2. Share with us your ideas, we will look for the best solution.
3. Once's accepted our proposal we will start the development, keeping you informed in all project phases.
4. Analyses with us project results to ensure we have fulfilled all objectives.



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