ECON

PELLETIZING
IS IN OUR
DNA

- ✓ WORLDWIDE TECHNOLOGICAL LEADER
- ✓ TRUSTED DEVELOPMENT PARTNER

ISO 9001 certified

MICRO PELLETS

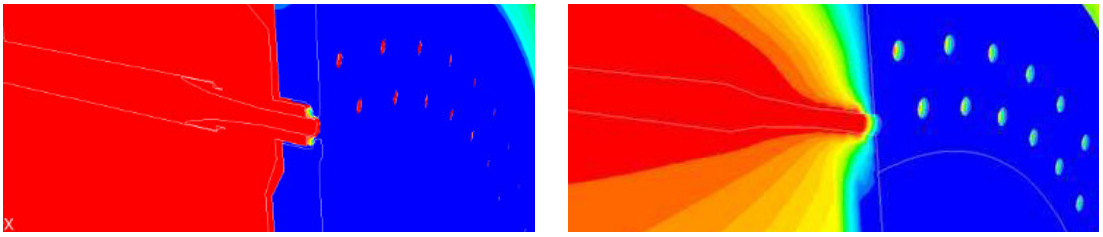
www.econ.eu

ECON UNDERWATER PELLETIZING SYSTEMS ESPECIALLY FOR **MICRO PELLETS**

There is a growing demand for micro pellets as an alternative to powder. For example, they are used for rotational molding or masterbatch production. For producing micro pellets, **ECON**'s technology provides major advantages.

PATENTED **THERMAL INSULATION** TECHNOLOGY

- **no „freezing" of die holes**
  - constant high pellet quality
- **thermally insulated die plate** attached to heated die carrier body
  - constant temperature trough the carrier body
  - no overheating of the melt



Comparison of the temperature profile:
ECON die plate unit (left), competitive concept (right)

The advantage of **ECON** underwater pelletizing systems is based on a very efficient thermal separation between the nozzles and the die plate, which is directly in contact with the cooling water. The variations in temperature between the process water and the melt may lead to a freezing of single or all extrusion strands. When producing micro pellets, this risk is particularly higher, because of the small die holes (Ø 0.4 – 0.8 mm). To reverse this effect, the **ECON** concept provides a constructional decoupling of the individual nozzles and the die plate. By means of **ECON**'s patented "thermal insulation" technology, the contact surface between the hot nozzles and the cool die plate is reduced to a minimum.

ENERGY-EFFICIENT SOLUTIONS

Our Thermal Insulated die plate saves energy two ways. On the one hand, the process water is barely heated up by the patented thermal insulation, thus, less cooling energy is required. Furthermore, less extrusion pressure needs to build up less energy consumption and lower operating costs.

- **reduced energy demand - increased profitability**
  - less heat transfer to the process water
  - less cooling energy required
  - less extrusion pressure
  - less heating energy required
  - lowers your operating costs — increases your bottom line profit

Save Energy

Various kinds of plastics are processed to micro pellets with **ECON** underwater pelletizing systems. Depending on material properties, pellet size and output, diverse die plate and nozzle configurations are applied. While die plates are only distinguished between one-row and multiple-row die plates, there are numerous variations of nozzles. In the majority of cases, **ECON** utilizes multi-hole nozzles for producing micro pellets. Depending on the hole diameter, these are capable of handling up to 22 holes per nozzle. For materials that require a larger space between the individual holes, single-hole nozzles are used.

Examples of use: EVA, PE, PP, soft PVC, PC, PET, etc.

EASY AND SAFE **OPERATION**

With the operation of **ECON** pelletizers, we combine two essential requirements: Easy to operate and safety of operator and machine. With the linear bearings, easy accessibility of the die plate, residue-free material change and hydraulic locking system, the **ECON** pelletizer concept guarantees easy and safe operation.

- easy and safe operation
- maximum process stability
- smooth, fast start-up process
- operational safety

Cooperating with customers, suppliers, universities and research funding institutions, a team of **ECON** employees is working intensely on further development and improvement of micro pelletizing technology. New developments are tested at the **ECON** technical center or, by request, directly at a customer's site.

Example of a multi-hole nozzle with 22 holes each Ø 0,4 mm

FOR ALL THERMOPLASTICS AND SPECIAL APPLICATIONS

ENERGY-EFFICIENT SOLUTIONS

TRAINING OF YOUR STAFF

QUALITY PROOFED **ORIGINAL SPARE PARTS**
- ECON certified
- locally stocked
- **96% in stock**

PREVENTIVE **MAINTENANCE**

PATENTED **THERMAL INSULATION** TECHNOLOGY

EASY AND SAFE **OPERATION**

TAILOR-MADE SOLUTIONS

PREMIUM **SERVICE**
- **service quality** for your success
- **flexible service solutions** - for your **individual requirements**

PROFESSIONAL **REMOTE MAINTENANCE**

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