

ECON

PELLETIZING
IS IN OUR
DNA



✓ **WORLDWIDE TECHNOLOGICAL LEADER**

✓ **TRUSTED DEVELOPMENT PARTNER**



ISO 9001 certified

ECON UNDERWATER PELLETIZING SYSTEMS, **EUP**

www.econ.eu

ECON – PELLETIZING IS IN OUR DNA ...

... this means that, in the pelletizing field, we make the impossible possible. **ECON** specializes in the development, production, and global marketing of innovative solutions for underwater pelletizing technologies and screen changers. **ECON** has secured numerous patents since its establishment in 1999. Our commitment to continuous improvement and technical development make us a recognized innovation leader for pelletizing systems. Global producers of virgin resins, compounders, masterbatch manufacturers, and recycling companies all value the quality and efficiency of **ECON** equipment.

ECON Technology

- **Tailor-made solutions** for your production line with a focus on durability.
- The exclusive engineering of the **patented ECON technology** significantly stands out from the conventional production machine.
- **Energy saving** due to the special design of the die plate unit.
- Our **service team responds immediately** to your requests and requirements.
- In the **ECON technical center**, you will have the opportunity to **experience the engineered technology** of the ECON underwater pelletizing process utilizing your material.
- You can **rent** our pelletizer before you decide to buy.
- As an owner-managed company, we guarantee **fast and short decision making processes**.

ECON Technology



ECON PELLETIZING TECHNOLOGY



ECON MELT FILTRATION



ECON MELT TECHNOLOGY

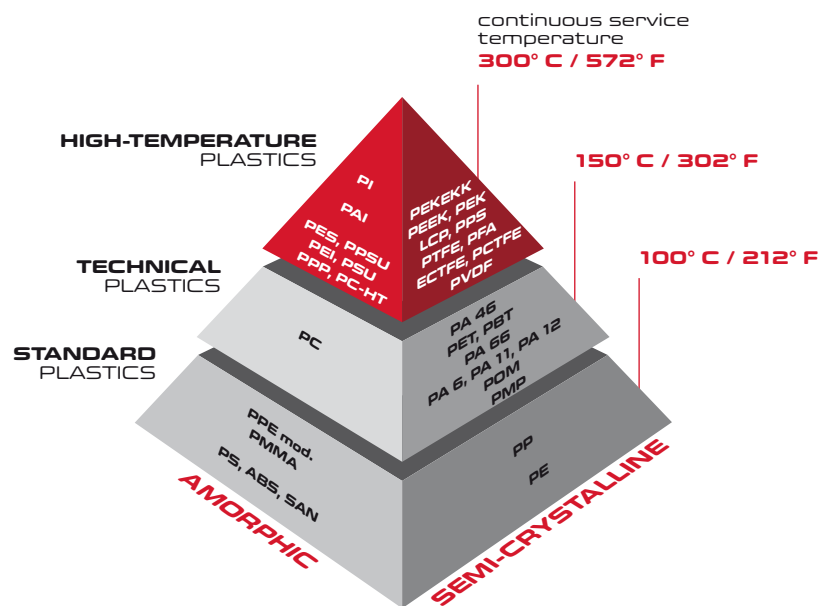


ECON LABORATORY EQUIPMENT

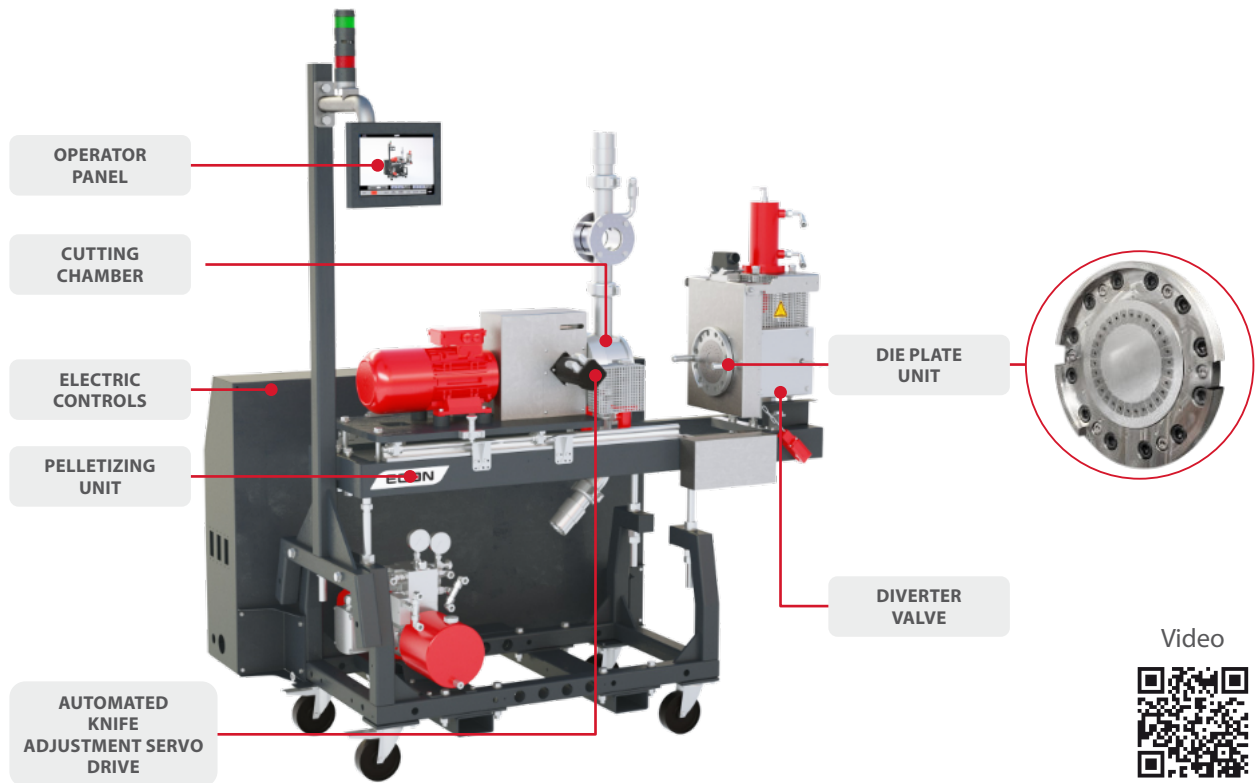


ECON PYROLYSIS CLEANING TECHNOLOGY

Material Group

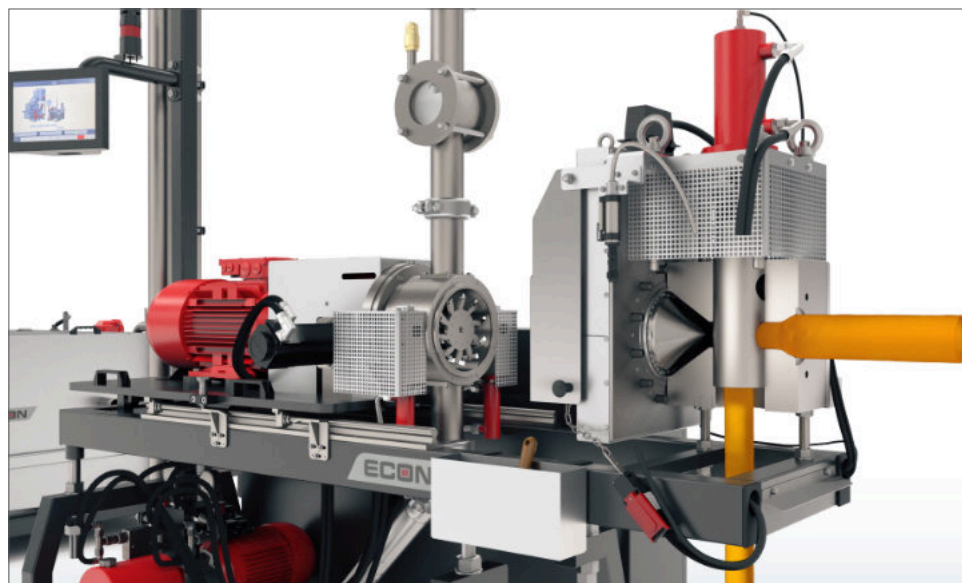


ECON UNDERWATER PELLETIZING SYSTEM, EUP



POLYMER DIVERTER VALVE

- all thermoplastic materials can be processed in all sizes (micro, mini, standard)
- highest process stability
- high-quality pellets
- tailor-made solutions for your individual requirements
- compact unit, minimal space requirements, simple handling
- only 1 operator is needed
- diverter valve for easy handling (included in the standard scope of supply)



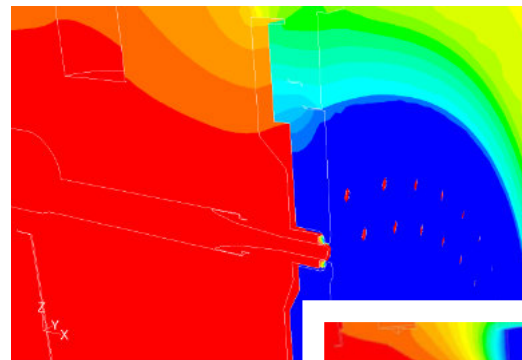
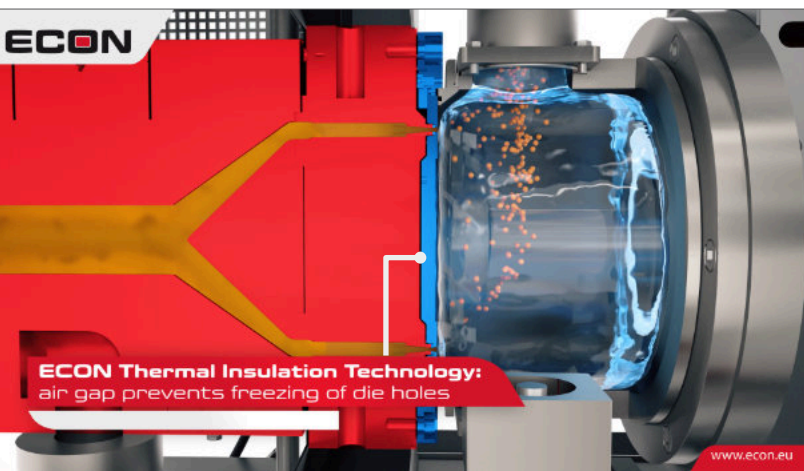
DIE PLATE UNIT

Patented Thermal Insulation Technology

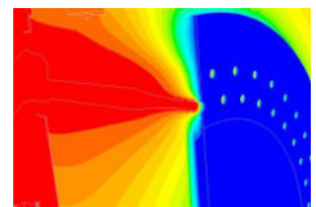
- **no „freezing“ of die holes**
 - constant high pellet quality
- **thermally insulated die plate** attached to heated die carrier body
 - constant temperature trough the carrier body
 - no overheating of the melt
- **reduced energy demand - increased profitability**
 - less heat transfer to the process water
 - less cooling energy required
 - less extrusion pressure
 - less heating energy required
 - lowers your operating costs – increases your bottom line profit



Video



ECON: complete thermal insulation



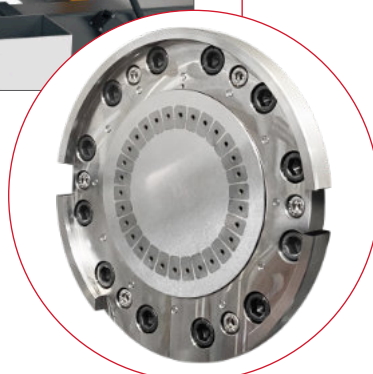
Competitors: permanent energy transfer to the process water



Die Plate

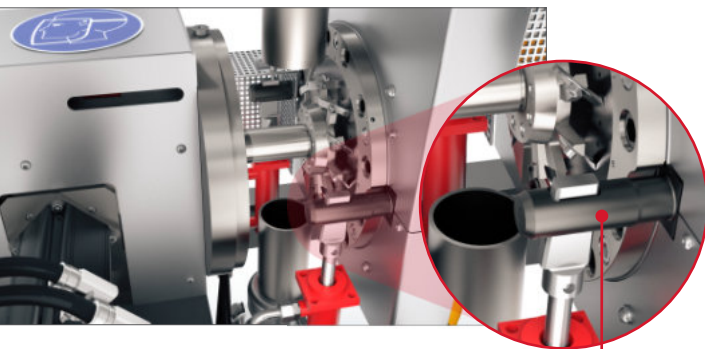
- easy handling
- wear resistant
LONGLIFE die plate
- easy cleaning
- low maintenance costs
- quick and easy to change

Video



CUTTING CHAMBER

- hydraulic locking system
- easy to dismantle
- easy to clean



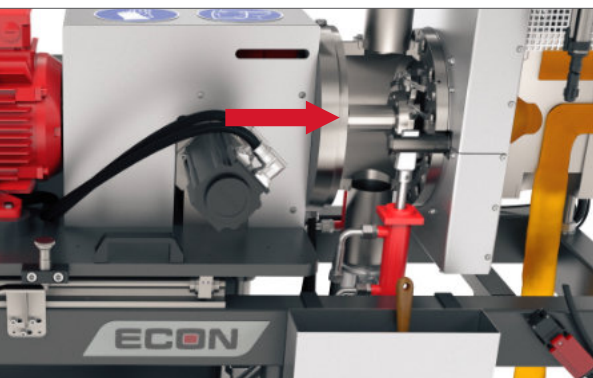
HYDRAULIC LOCKING SYSTEM



Video



AUTOMATIC KNIFE ADJUSTMENT SERVO DRIVE



The servomotor controls the position and force of the knife carrier against the die plate. The hydraulic locking system ensures proper adjustment and safe operation.

- accurate knife adjustment by servo drive
- automatic start sequence - fast and safe
- online process monitoring of key process parameters for reproducible production processes
- knives can be regrinded during production process

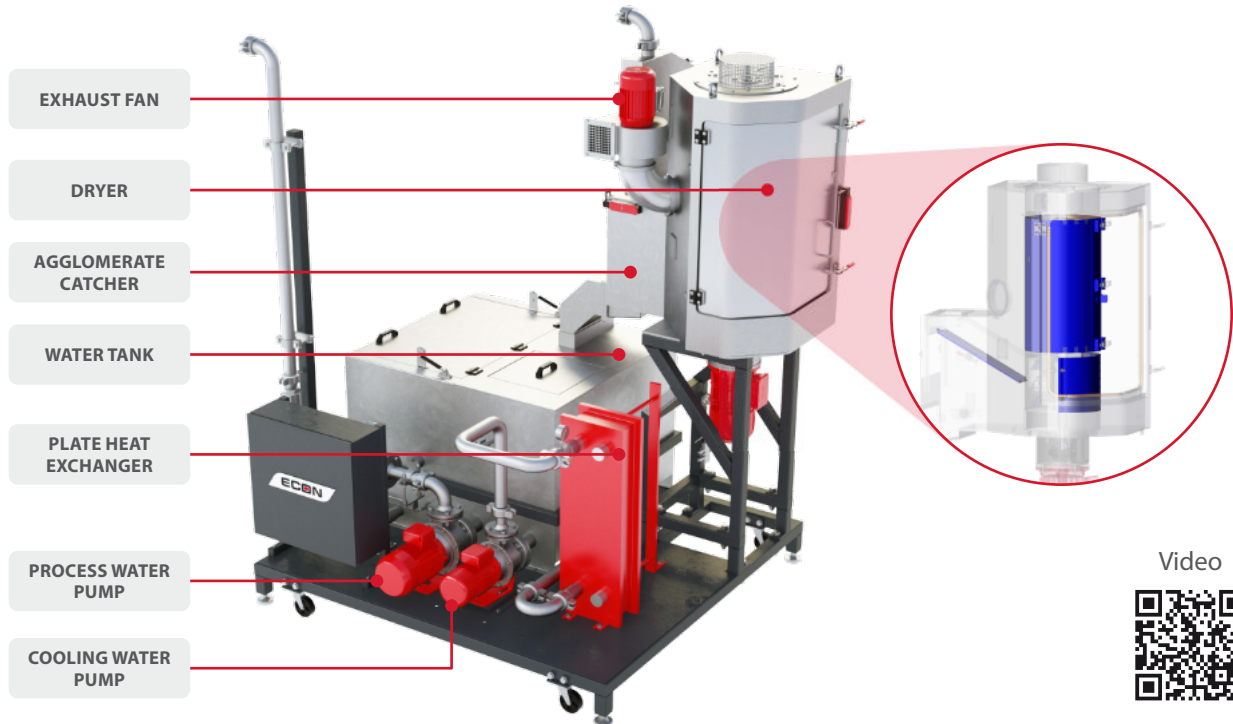
Video



Underwater pelletizer	Throughput capacity*
EUP 10	1 to max. 30 kg/h (2 to 60 lbs/h)
EUP 50	20 to max. 150 kg/h (44 to 330 lbs/h)
EUP 150	100 to max. 450 kg/h (220 to 1,000 lbs/h)
EUP 400	300 to max. 800 kg/h (660 to 1,764 lbs/h)
EUP 1000	700 to max. 1,800 kg/h (1,500 to 4,000 lbs/h)
EUP 1500	800 to max. 2,500 kg/h (1,700 to 5,500 lbs/h)
EUP 3000	1,800 to max. 3,500 kg/h (4,000 to 8,000 lbs/h)
EUP 6000	3,000 to max. 8,000 kg/h (6,000 to 18,000 lbs/h)
EUP 8000	8,000 to max. 15,000 kg/h (18,000 to 35,000 lbs/h)

* The listed areas are guideline values and apply to standard granules. The throughput capacities always depend on the material properties and pellet size and can also deviate in individual cases. With micro-pellets compounds, the throughputs are generally lower.

ECON WATER TREATMENT AND DRYING SYSTEM, EWT



Video



ECON Water Treatment, EWT

- pre-dewatering unit for best drying performance
- clean process water will be recirculated – minimal water consumption
- process water circle and cooling circle are separated to increase the lifetime of the heat exchanger
- permanent control of the process water temperature

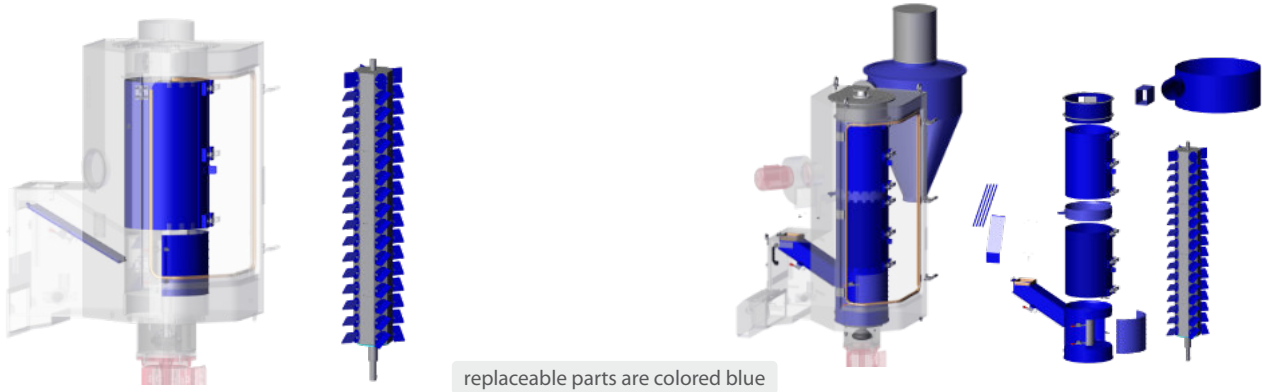
EWT	Throughput capacity	Dryer Long Version (L)
110	up to 30 kg/h (up to 60 lbs/h)	N/A
190	up to 150 kg/h (up to 330 lbs/h)	200 kg/h (450 lbs/h)
250	up to 450 kg/h (up to 1,000 lbs/h)	600 kg/h (1,300 lbs/h)
350	up to 1,350 kg/h (up to 3,000 lbs/h)	1,800 kg/h (4,000 lbs/h)
400	up to 3,500 kg/h (up to 8,000 lbs/h)	4,000 kg/h (9,000 lbs/h)
500	up to 8,000 kg/h (up to 18,000 lbs/h)	N/A
750	up to 15,000 kg/h (up to 35,000 lbs/h)	N/A

ECON Centrifugal Dryer, ECD

- easy access for cleaning and inspection
- highly wear resistant option for aggressive applications
- screen and rotor suitable for micro pellets
- rotor plates bolted for easy changing

Function: In the pre-dewatering unit, the pellets are separated from the process water and conveyed to the centrifugal dryer. The centrifugal forces in the dryer and the special arrangement of the blades propel the pellets upwards and simultaneously separate the residual water via screens. The process water is collected in the water tank, filtered and recirculated to the process.

ECO - OPTIONAL EQUIPMENT



replaceable parts are colored blue

Wear Protection

Wear protection is attached to the components which are in contact with the material.

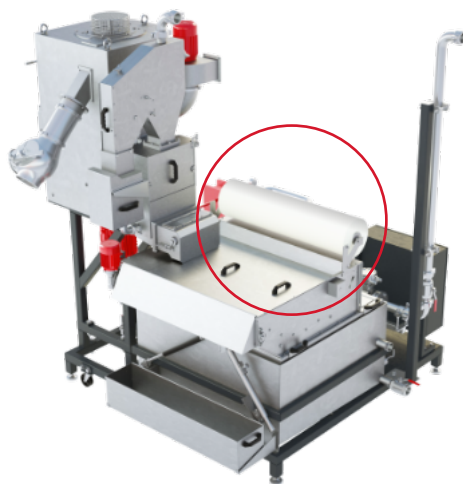
- increased durability
- especially for slightly abrasive materials

Wear Protection Heavy Duty

Extended dryer, resulting in a lower speed for the same drying performance. This leads to less wear and a higher durability. By use of the cyclone, the speed of pellets slows down in a gentle way. This results in a higher durability of the dryer outlet.

- for applications with more than 10% glass fiber content
- for applications with more than 20% ceramic filler

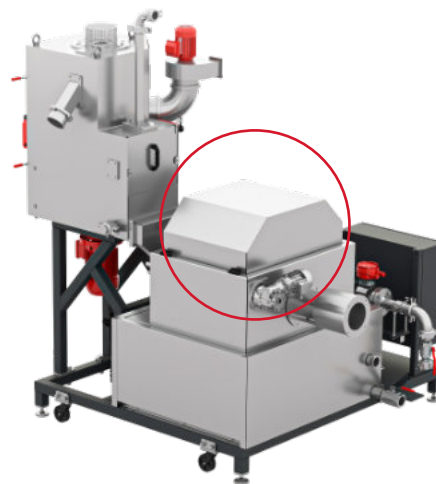
EWT - OPTIONAL EQUIPMENT



ECON Band Filter, EBF

- continuous filtration of the process water using a band filter

Video



ECON Drum Filter, EDF

- self-cleaning
- maintenance-free
- full automatic operation — no manpower required
- low operation costs — no additional process water and no fleece required
- high grade of filtration (less than 55 µm)

Video





FOR ALL THERMOPLASTICS AND SPECIAL APPLICATIONS



PATENTED THERMAL INSULATION TECHNOLOGY



EASY AND SAFE OPERATION



ENERGY-EFFICIENT SOLUTIONS



TAILOR-MADE SOLUTIONS



TRAINING OF YOUR STAFF



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



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



PROFESSIONAL REMOTE MAINTENANCE



PREVENTIVE MAINTENANCE

Contact



Downloads



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