

# ECON

✓ **WORLDWIDE TECHNOLOGICAL LEADER**

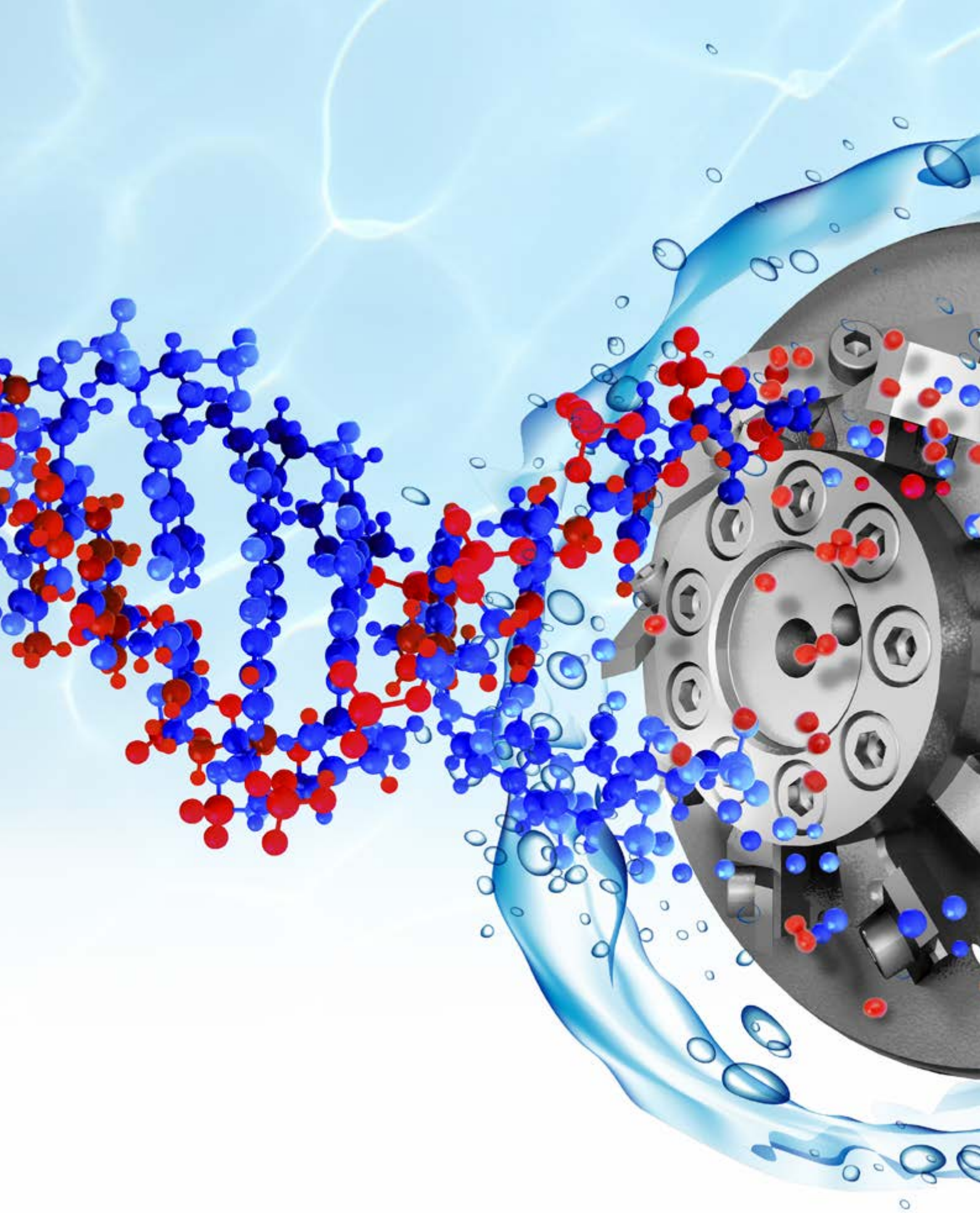
✓ **TRUSTED DEVELOPMENT PARTNER**

## PELLETIZING IS IN OUR DNA ...

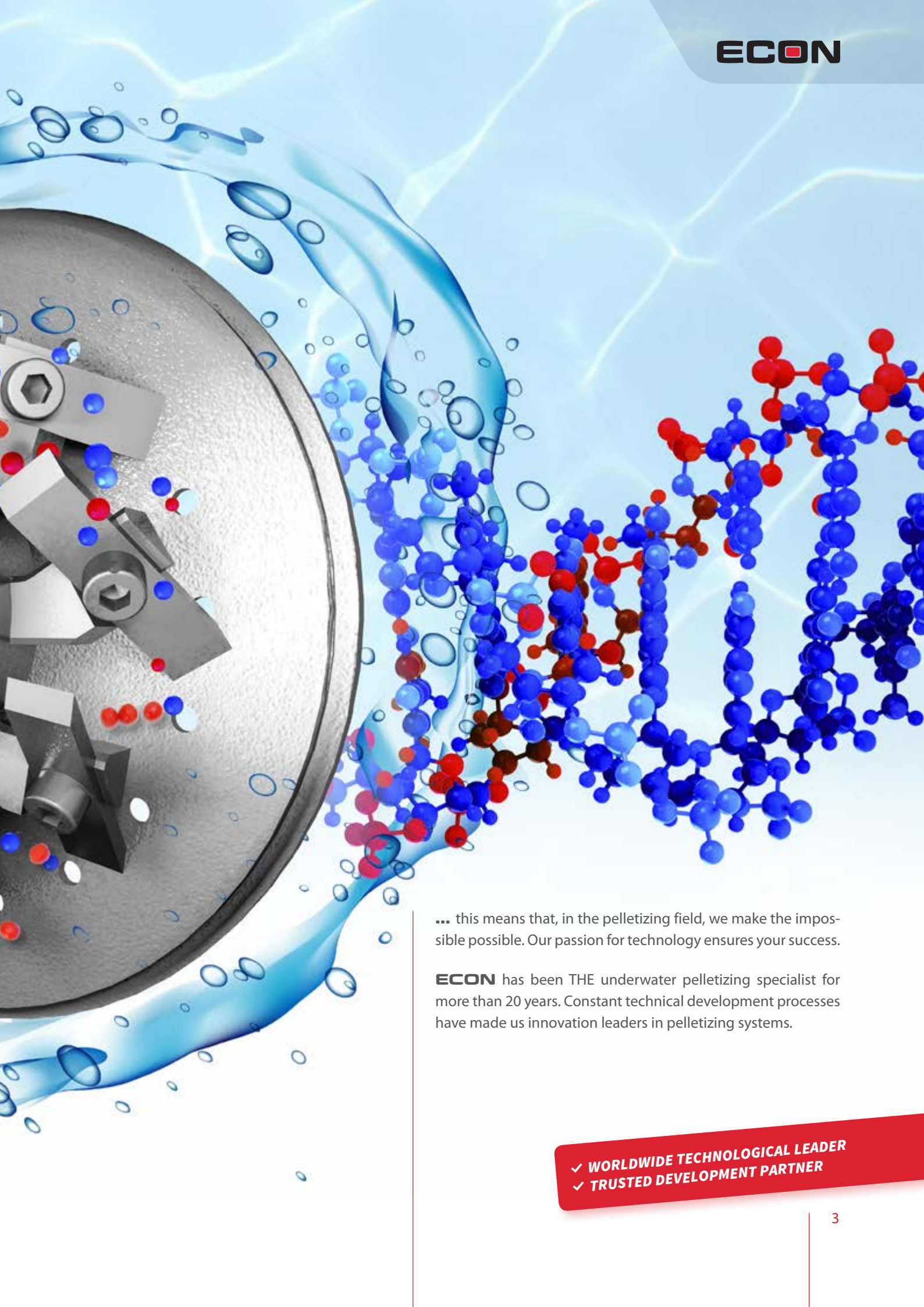
ISO 9001 certified

ECON TURNS YOUR IDEAS  
INTO REALITY.

[www.econ.eu](http://www.econ.eu)







... this means that, in the pelletizing field, we make the impossible possible. Our passion for technology ensures your success.

**ECON** has been THE underwater pelletizing specialist for more than 20 years. Constant technical development processes have made us innovation leaders in pelletizing systems.

✓ **WORLDWIDE TECHNOLOGICAL LEADER**  
✓ **TRUSTED DEVELOPMENT PARTNER**





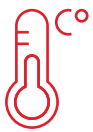
## **ECON TEAM**



## **ECON** TECHNOLOGY

- ✓ Tailor-made solutions for your production line with a focus on durability and spare parts guarantee.
- ✓ 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 **ECON**'s technical center, you have the opportunity to experience the engineered technology of the **ECON** Underwater Pelletizer process on your material.
- ✓ You can rent our pelletizer before you decide to buy.
- ✓ As an owner-managed company, we guarantee fast and short decision processes.

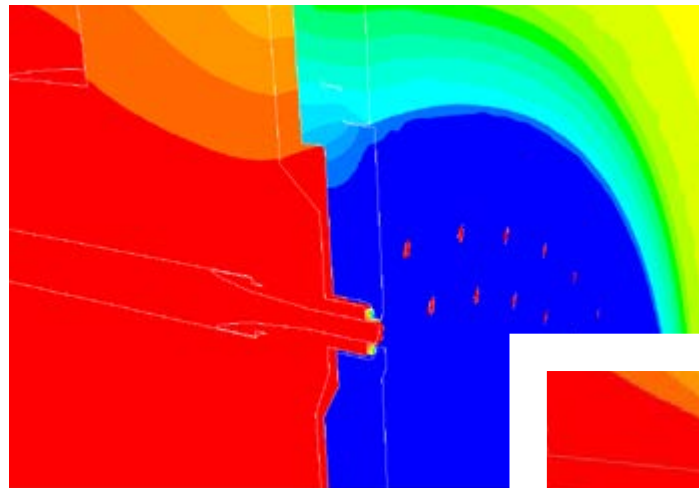




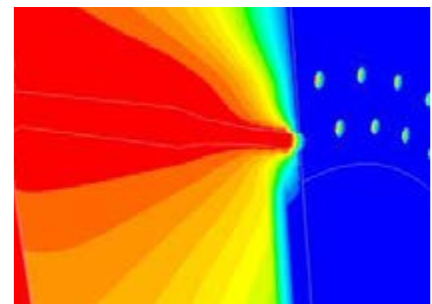
## PATENTED THERMAL INSULATION

- no freezing of the die holes
- constant melt temperature over the complete length of the nozzle
- no overheating of the melt
- larger throughput range per hole (up to 1:8)
- minimal heat flow to the process water
- saves energy

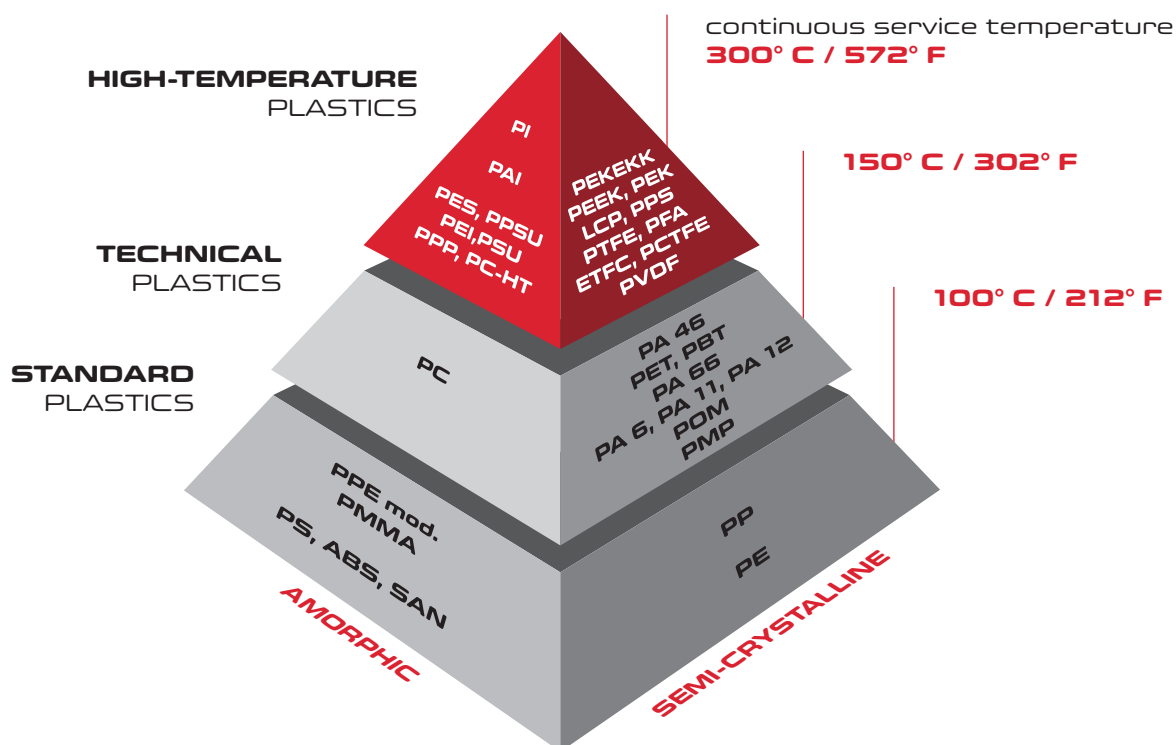
Easily accessible  
die plate unit and  
hydraulic lock



**ECON:** complete  
thermal insulation



Competitors: Permanent energy transfer  
to the process water



## FOR ALL THERMOPLASTICS AND SPECIAL APPLICATIONS

The innovative technology of **ECON** makes the pelletizing of plastics possible where it could not otherwise be pelletized. By means of the patented thermal insulation, materials can be pelletized with high temperature requirements or high percentage of filled materials. Also, materials with a high melt flow rate.

- high temperature ranges
- compounds with high filler content
- high MFR (melt flow rate)
- rubber-like, adhesive and viscous materials
- micro pellets



## EASY AND SAFE OPERATION

With the operation of **ECON** pelletizers, we combine two essential requirements: simple and efficient operation with high operational safety. The linear bearings, easy accessibility of the die plate (no residual-materials on the die plate in case of material change) and automatic hydraulic locking system, the **ECON** concept guarantees perfect operation.

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



## 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.

- minimal heating of the process water
- less cooling energy
- up to a  $\frac{1}{3}$  less extrusion pressure
- low heating power required





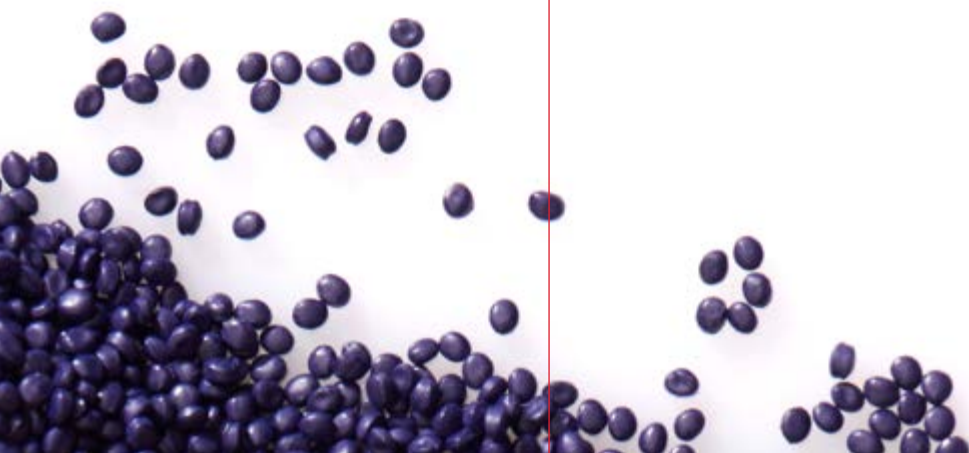


## DEVELOPMENT AND INNOVATION

Continuous improvement processes, stimulated by employees and customers, are an essential component of our innovated management team. New developments are tested and proven in our technical center in Austria. We also offer our customers and prospective customers the opportunity to do a trial with their own material, engineered to their individual requirements, at all branches.

## RENT

- ! Are you not able to test your product at our branch? We bring the testing environment to you.
- Take advantage of our rental equipment offer!





## TRAINING OF YOUR STAFF

We train your employees directly at your site under production conditions. Because only the best trained staff is able to improve the efficiency of the plant. Whether for commissioning or for additional training specifically tailored to your needs, it brings a significant increase of work quality and productivity and reduces operating costs at the same time.



## TESTED ORIGINAL SPARE PARTS

Quick availability, fast delivery, specialist advice and **ECON** original parts with manufacturer's guarantee meet your highest expectations. Spare parts packages especially developed for your plants as well as competitive prices reduce downtimes and increase the availability of your **ECON** plant. Our customer service team would be happy to advise you on preventive spare parts planning.





## UNIQUE SERVICE

We rely on personal support and long-term relationships with our customers. Whether by email or phone, no matter what country in the world: By starting with the commissioning of your **ECON** plant, our customer service team will personally advise and support you efficiently. We provide extremely fast response times.



## PROFESSIONAL REMOTE MAINTENANCE

Our expert and fast support through remote maintenance for fault diagnosis and data transfer guarantees maximum availability for your plants and high production safety thanks to our quick assistance and optimisation by our specialists. Problems can therefore be solved directly and downtimes can be avoided.



## PREVENTIVE MAINTENANCE

Preventive servicing and correct maintenance are important conditions for the availability and optimal efficiency of your production plant. Thanks to our high-quality standards and experience, we can point out improvement potential to you during inspections and maintenance. Timely diagnoses and preventive measures can help you avoid costly damage and lower the risk of production failures. Furthermore, new developments can be integrated into your plant so that you always work with the latest **ECON** technology.





## UNDERWATER PELLETIZING **EUP** PROCESS WATER AND DRYING SYSTEM **EWT**

With thermal insulation, **ECON** provides the leading technology in underwater pelletizing. The die plate is thermally insulated and fixed on the heated carrier body. This thermal insulation mostly prevents the melt in the outlet holes from “freezing”. Even in throughput fluctuations, **ECON** underwater pelletizing is extremely safe to operate and guarantees high flexibility. The **ECON** process water and drying system (EWT) provides an efficient solution to pellets drying.

- ✓ processability of all thermoplastics
- ✓ start-up process at the push of a button – automatic, fast and safe
- ✓ the thermal insulation on the die plate mostly prevents the holes from “freezing”
- ✓ uniform pellet quality
- ✓ up to the smallest possible pellet
- ✓ compact unit, little space required, easy operation
- ✓ minimum energy consumption – maximum savings
- ✓ optional components for your individual requirements
- ✓ reduced labour and maintenance
- ✓ no bypass piping required, small loss of water
- ✓ continuous process water filtration, optionally with automatic compact belt filter system
- ✓ easily accessible pellets dryer for easy and safe cleaning

Generally, **ECON**'s underwater pelletizers are offered PLUG&PLAY with diverter valve, water treatment and drying system (EWT)

Underwater pelletizer	Water Treatment and Drying System	Throughput capacity*
EUP 10	EWT 110	1 to max. 30 kg/h
EUP 50	EWT 190	2 to max. 150 kg/h
EUP 150	EWT 250	100 to max. 450 kg/h
EUP 400	EWT 350-4	300 to max. 750 kg/h
EUP 600	EWT 350-6	500 to max. 1.350 kg/h
EUP 1500	EWT 400-15	800 to max. 2.500 kg/h
EUP 3000	EWT 400-30	1.800 to max. 3.500 kg/h
EUP 6000	EWT 500 with S+L DHL 725	3.000 to max. 8.000 kg/h
EUP 8000	EWT 750	8.000 to max. 15.000 kg/h

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



• vibration drying system  
**EVS**



• pellet dryer  
**S+L**



• air pelletizer  
**ELG**



• water and air pelletizer  
**EWA**



• pyrolysis furnace  
**EPO**

## MORE INNOVATIVE PRODUCTS



• screen changer  
**ESD**



• screen changer  
**ESK**



• continuous screen changer with  
back-flush system **ESK B** with  
two or four screen packs



## HOW MUCH ARE THE **ANNUAL SAVINGS** WHEN USING AN **ECON SYSTEM**?

The following calculation example illustrates this.

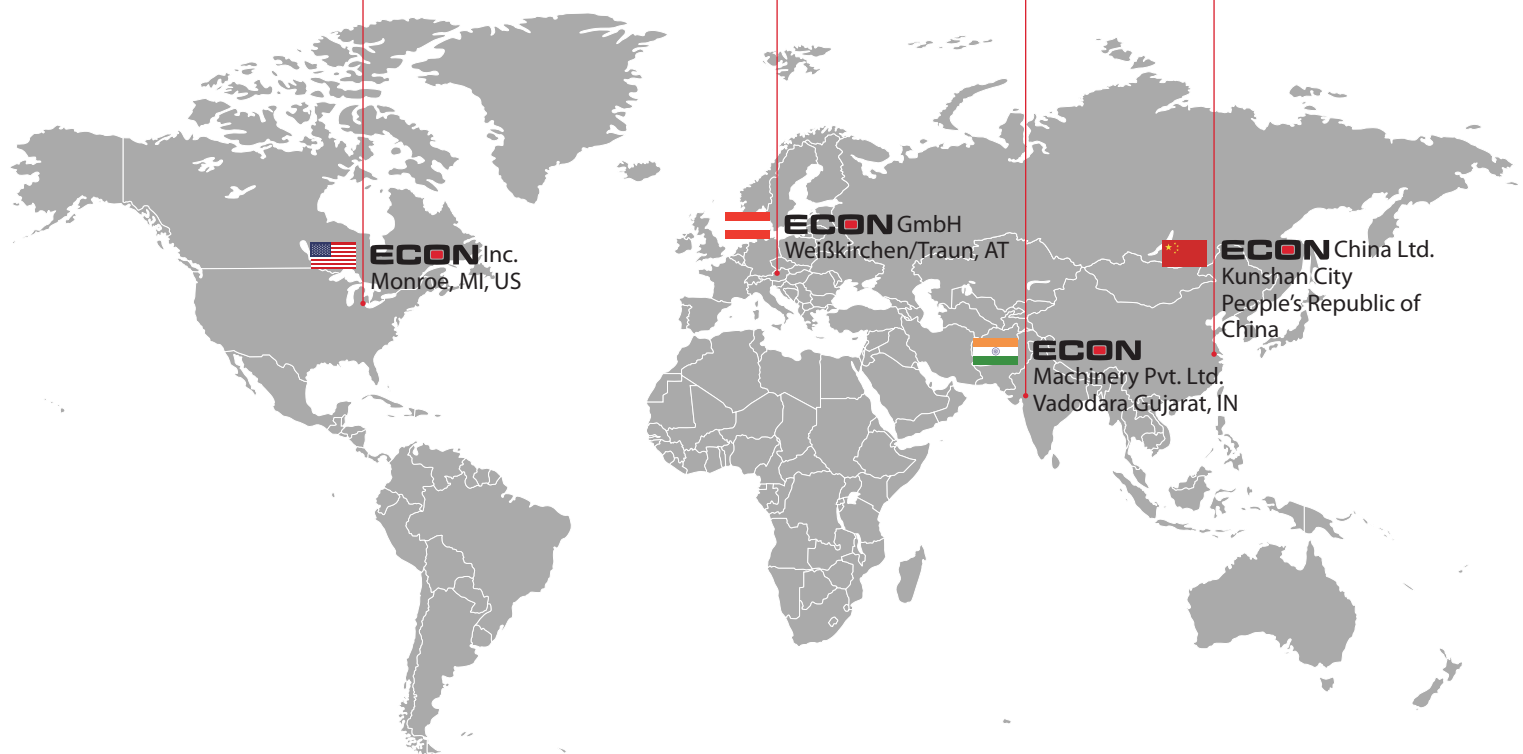
### ENERGY REQUIREMENTS AT THE DIE PLATE

POWER CONSUMPTION DIE PLATE (measured values) Basis: PP, 1,000 kg/hr throughput		
	ECON	COMPETITION
installed power at the die plate	3,78 kW	6,4 kW
switch-on time	5 %	ca. 60 %
power consumption	0,189 kW/hr	3,84 kW/hr
annual consumption (300 days x 24 hrs)	1.360 kWh/year	27.648 kWh/year
annual costs	<b>€ 204,12</b>	<b>€ 4.147,20</b>
annual cost savings	<b>€ 3.943,08</b>	



### COST SAVINGS

Further savings result from optimized maintenance costs, lower wear, etc.



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