

PELLETIZING SYSTEMS ›

› UNDERWATER PELLETIZING



PEARLO^{FLEX} System[®]

Underwater Pelletizing System for frequent product and color changes up to 500 kg per hour



The PEARLO^{FLEX} SYSTEM[®] for underwater pelletizing has been specifically designed to process a wide range of polymers and thermoplastics and produces mostly spherical pellets.

This most efficient and flexible system is for example applied in the production of compounds, masterbatches, engineering plastics, wood and nature filler filled polymer composites, thermoplastic elastomers, and in the field of recycling.

Your benefits

- Proven technology by Gala and Maag Automatik
- Compact design, small footprint
- Diverter valve, pelletizer, dryer and process water system and control cabinet mounted on one frame
- Optional additionally with melt pump and/or screen changer
- Easy operation, cleaning and maintenance by comfortable accessibility
- High flexibility by swiveling of all components out of extruder center line
- Automated (EAC) and manual blade advance
- Various water filtration options

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Proven technology combined to best:

- Hydraulically operated diverter valve
- Electrically, optional liquid heated die plate (modell 6 design)
- Narrow width die face
- Perfect start-up procedure by tangential cutting chamber in- and outlet (SPHERO[®])
- Single sided long blade (SPHERO[®])
- New flexible cutting hub design
- Easy operating and efficient (longer life time) blade advance by automatically EAC function, optional with manual readjustment (MAP)
- Quick operation by touch panel mounted directly at pelletizer



- Flexible machine concept for fast product-, pellet shape and size change
- Time saving by swiveling of diverter valve, pelletizer, optional melt pump and screen changer out of the extruder center line



Range of applications

The PEARLO^{FLEX} SYSTEM[®] is well-suited for the production of masterbatch, compounds, blends, and recyclates based on:

- Polyolefins, e.g. LDPE, HDPE, PP
- Styrene polymers, e.g. PS, SAN, ABS
- Acrylic resins, e.g. PMMA, PAN
- Polyacetals, e.g. POM
- Polycarbonates, e.g. PC
- Polyesters, e.g. PET, PBT, PEN
- Polyamides, e.g. PA 6, PA 6.6, PA 11, PA 12
- Thermoplastic elastomers, e.g. TPE-S, TPE-E
- Polyurethanes, e.g. TPU
- Hot-melt adhesives
- Rubber
- Natural and synthetic resins
- Biopolymers, e.g. PLA, PHA, Bio-PA, Bio-PET, Bio-PP
- Other plastics available upon request

Technical data

System	Rate [kg/h]	Specification market	Specials features	Customer benefits
PEARLO ^{FLEX}	500	Compound, Masterbatch	frequent material and color changes	efficient + flexible, high uptime + low waste

New centrifugal dryer TORNADO[®]

- Extremely low residual moisture
- Gently product drying
- High operator friendly
- Quick cleaning

Process water tempering system

- With simple drawer water filtration
- Optional with proven band filter (CBF)
- Flexible for product change
- Continuous water filtration

