

Underwater Pelletizing System UWG

Pelletizing System for Polymers



The Trendelkamp UWG-System is suitable for most thermoplastic polymers.

The complete pelletizing system includes the polymer diverter valve, die plate with pelletizing unit, process water system and pellet dryer. Optionally, the UWG-System can be extended with a melt pump and screen changer. The complete system is regulated via a PLC-Control including graphical user display. Because of the compact design and swivel-mounted pelletizer the operator has access underneath the pelletizer unit and polymer diverter valve. The height adjustable support cart on wheels provides maximum flexibility. The bypass piping system offers quick and safe start-up of production and simple water removal from the cutting chamber.

- Simple and highly secure operation
- Compact design and swivel-mounted pelletizer
- Hand locking mechanism for the cutting chamber
- One-Touch-Operation for startup and stopping
- Automatic process monitoring
- Automatic control of blade positioning/wear monitoring
- Cartridge heater monitoring
- Automatic agglomerate separation

Pellet Dryer

- Centrifugal dryer

Optional:

- Frequency controlled
- Rotation monitoring
- Automatic agglomerate separator
- Adjustable ventilator
- Pellet switch
- Anti-wear coating

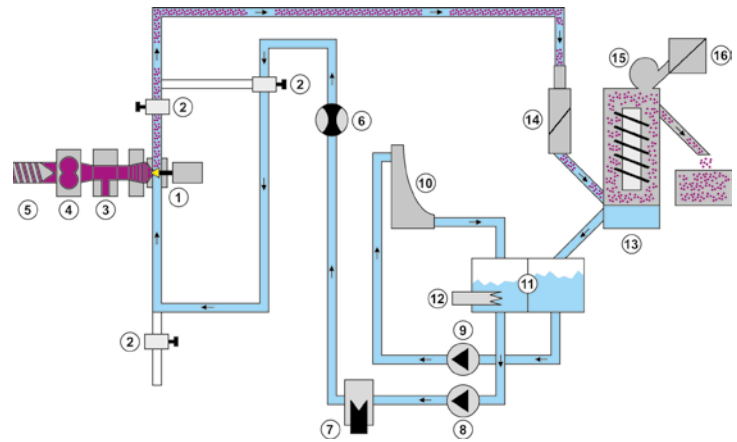
Process Water System

- Compact design
- Simple and fast cleaning
- Plate heat exchanger
- Automatic water refill

Optional:

- Process water heating
- Process water flow-meter monitoring
- Curved screen
- Band filter

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Pellet Dryer



Process Water System

- 1 Pelletizer unit
- 2 Bypass piping-system
- 3 Polymer diverter valve
- 4 Melt pump
- 5 Extruder
- 6 Process water flowmeter
- 7 Plate heat exchanger
- 8 Pump process water cycle
- 9 Pump process water cleaning
- 10 Curved screen
- 11 Process water tank
- 12 Process water heating
- 13 Pellet dryer
- 14 Agglomerate separator
- 15 Ventilator pellet dryer
- 16 Water separator

Series	TK-UWG 75	TK-UWG 120
Throughput*	180 - 720 kg/h	500 - 2,500 kg/h
Poylmer Diverter Valve		
Heating power	5.0 kW	6.4 kW
Power hydraulic unit	7.5 kW	7.5 kW
Pelletizer		
Drive power	3.0 kW	5.5 kW
Speed range	500 - 5,500 rpm	500 - 4,500 rpm
Die Plate		
Heating power	4.8 kW	12.0 kW
Number of die holes*	20	80

Series	TK-UWG 75	TK-UWG 120
Pellet Dryer		
Drive power	5.5 kW	5.5 kW
Power ventilator	0.55 kW	0.55 kW
Process Water System		
Process water flow rate	15 m ³ /h	40 m ³ /h
Volume of the process water	250 l (330 l mit PWC**)	250 l (330 l mit PWC**)
Pump water cycle	4.0 kW	7.5 kW
Pump water cleaning**	2.2 kW	4.0 kW
Water heating - Heating	2 x 9.0 kW	4 x 9.0 kW
Water cleaning standard	Drawer filter	Drawer filter

* depending on application | ** optional | Process Water Cleaning (PWC)