

HEAT FLUX DIE

Pellet Processing Systems for the Plastics Industry



Utilizing a combination of innovative surface insulation methods and manufacturing techniques, the Heat Flux Die Plate has proven itself to be the die technology of the future.

Your benefits

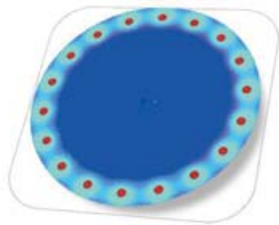
- Improved pellet quality and consistency with a broader range of rate fluctuation
- Creates substantially lower pressure drop on the same overall hole profile in comparison to competitive and conventional die plates
- Higher pellet production capacities can be achieved on the same machine
- Reduction in material shear, resulting in a higher quality material with less material degradation
- Reduction or elimination of die hole freeze, which allows significantly lower start-up rates per hole. This reduces overall waste and makes the underwater pelletizing process on many applications even more attractive.

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Model 7 for 4,000 kg/h pellet production



Thermally Insulated Die Holes

The specific insulation design and resulting degree of thermal conductivity allows the pellets to be cut in an elastic, soft phase which provides less potential of fines generation compared to competitive systems.

The Heat Flux Die Plate Technology can be implemented to replace conventional die plate designs with minimal changes. This design does not require high-temperature sealant during installation, which makes it more operator-friendly with minimal maintenance required.

- Innovative method of insulating die
- Simplified handling
- Low pressure drop
- Lower power consumption
- Reduction of shear pressure of polymer



INTERCHANGEABILITY DIE CONCEPTS

The Heat Flux Die Plate has been designed specifically for applications that require maximum efficiency in thermal performance of a die plate.

- Available in the solid body and 2-piece design (Removable Center Die)
- Available for both the Model 6 and Model 7 pelletizer
- Does not require any silicone for installation
- Insert taper relies on gasket to seal die plate
- The die is insulated from the cutting chamber
- The preferred die face surface material is titanium carbide alloy
- Due to the complexity of the design, the flux die face cannot be resurfaced

The non-heat flux die plate can also be utilized in applications that do not require the thermal efficiency that can be gained by utilizing the Heat Flux Die Design. With this being said, there are distinct advantages of the non-heat flux die plate over conventional die plates.

- Conventional center die insulation or GEP does require silicone to seal
- Optional H-Face Design is available, which does not require any silicone
- Insert taper relies on gasket to seal die plate
- The die is insulated from the cutting chamber
- Die face surface materials can be Stellite, tungsten carbide tiled (round/square) and titanium carbide alloy
- The non-heat flux die plate can be resurfaced like the conventional die plates
- The die body and cutting chamber of the non-heat flux is interchangeable with the Heat Flux Die