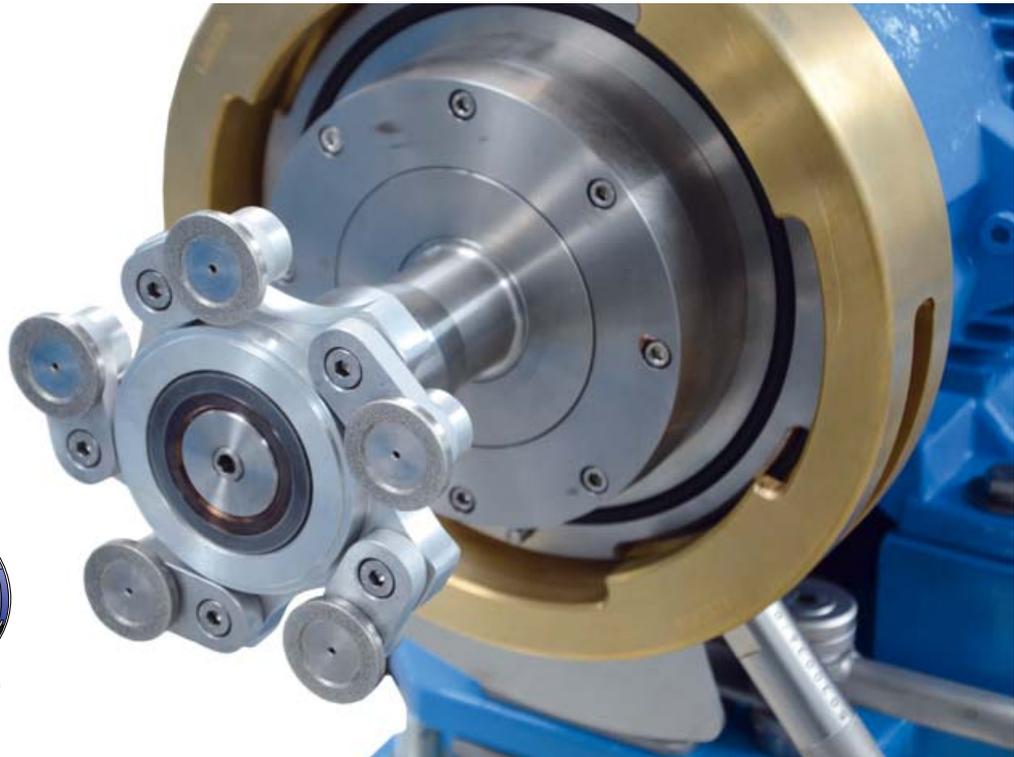


# SPARE PARTS UPDATE

## Pellet Processing Systems for the Plastics Industry



Gala Industries, Inc. was established in 1959, with our corporate headquarters based in Eagle Rock, Virginia. Gala has two branches – one in Germany and one in Thailand – and a Technical Center in Roanoke, VA. As a globally active supplier of underwater pelletizing and drying systems for the chemical industry, Gala has for 50 years demonstrated its expertise in pelletizing and drying a wide variety of plastic-based materials – from basic polyolefins to biopolymers, food- and medical-grade polymers, engineering resins such as nylons or polyesters, hot-melt adhesives, and more. Gala is known worldwide for unparalleled customer service.

### Your benefits

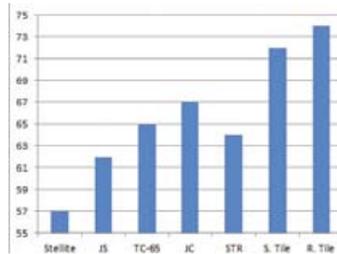
- Quality
- Reliability
- Service

# SPARE PARTS UPDATE

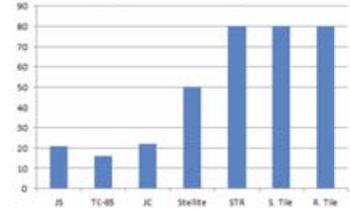
## Pellet Processing Systems for the Plastics Industry

### TC-65 Die Face

The TC-65 face is now available. It is a Titanium Carbide Alloy similar to JS face, but is harder and more wear-resistant. The TC-65 face material has a 25% lower thermal conductivity than JS, which helps with die performance while reducing freeze-off and energy consumption. This face is available in the Model 5, 6, G3, and 7 die plates. It is not available on model 12 dies plates at this time. The hardness of the TC-65 face is 64-66Rc.



Hardness Rc (approx.)



Thermal Conductivity W/m °K (approx.)

### Flux Design Die Plate

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.

#### The Major Benefits of this design:

- 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 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 freezing, 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.



Flux Design Die Plate

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.

### DS Design Die Plate

The DS Die Plate has been specifically designed and developed by Gala for high-viscosity applications and materials that have a sensitivity to melt fracture, shear heat and degradation. This die plate design is used to lower die plate pressures and to add more holes to the die plate. In most cases, a DS design die plate will run 40% lower pressure than a comparable single-hole pattern die. It is primarily used for PVC applications.



# SPARE PARTS UPDATE

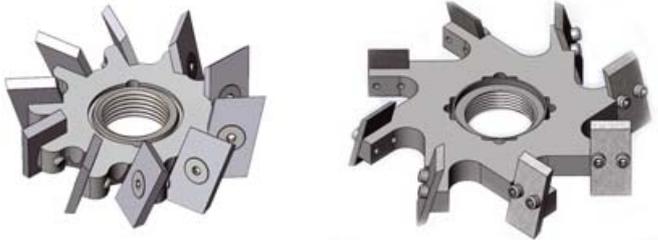
Pellet Processing Systems for the Plastics Industry

## 75° Blade Tip Angle Cutter Hub Assembly

This design cutter hub with a 75° blade tip angle NW (non-walking) design allows us to get 10- and 12-spoke cutter hubs for model 6 pelletizers. They are also available for model 7 pelletizers as well.

## 40° Angular Cut Cutter Hub Assembly

This cutter hub can be used in applications where a lot of fines are generated. It helps reduce the fines generation by improving the way the blade contacts the die plate face, resulting in less fines.



75° Blade Tip Angle Cutter Hub

40° Angular Cut Cutter Hub

## Cutter Hub Removal/Installation Tool

This tool was designed with the operator's safety in mind. Using this tool will allow our customers to safely and easily install and remove the cutter hub assembly without the operator coming in contact with the sharp blades. To use the tool, your existing cutter hub must be modified with two M10 x 1.5 tapped holes on a precise bolt circle. The cutter hubs can be modified by the customer or returned to Gala for modification.

## Extended Blade Design and Streamline Cut Cutter Hub Assembly

The extended blade design allows for 8 - 10 mm of blade wear instead of the normal 5 mm per side. This means longer operating times before changing blades and less downtime. The streamline cuts improve water flow around the arms of the hub. They also help reduce trapped pellets in the middle of the hub. This design is recommended for sticky products.

\*Protective Coatings (including those for glass-filled applications) are available on most cutter hub designs\*

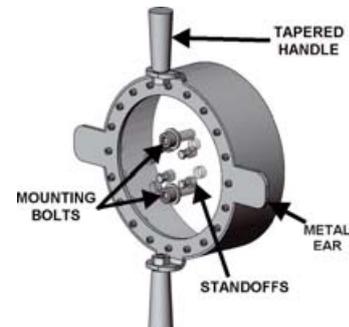
## Blades

Gala offers many different types of blade materials. Specialty blades, such as half thick or half length, or various materials of construction, are available for special pelletizing applications.



## New Coil Heater Clip

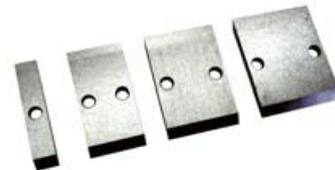
The new design coil heater retainers have round covers that can swivel. This gives more flexible heater wire placement. The new round covers close the heater hole off more than the previous design, and the rock wool ceramic cotton is no longer required.



Cutter Hub Removal/Installation Tool



Extended Blade Design & Streamline Cut Cutter Hub



Blades

# SPARE PARTS UPDATE

Pellet Processing Systems for the Plastics Industry

## Supported by 24-hour

### Service Worldwide!

#### Technical Support:

Gala has earned its reputation for providing prompt, dependable service – before, during and after the sale. The mobile phone number of every technician is published on our website so they are available 24 hours a day. Every Customer call is handled with priority.

#### Training:

Customers are able to order classroom and hands-on training for operators and maintenance personnel on all of our Gala-manufactured equipment, either at the Customer's facility or at Gala's Technical Center.

#### Technical Centers:

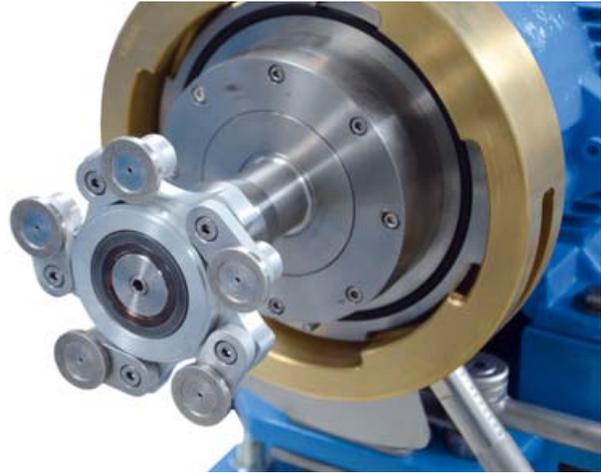
Gala's technical centers are available to Customers who wish to evaluate the suitability of a Gala System for purchase, for assistance in product development, R&D, or for product market sampling.



Gala's R+D Facility at  
Roanoke, VA, USA

## Grinding Tool

The grinding tool is used for finishing the die face and repairing minor damage from regular use. When the grinding tool is used properly, money is saved by having less downtime. The life of the die plate and blades will be extended when the grinding tool is used appropriately, which will produce better product.



Grinding Tool