



# CUSTOMER SUCCESS STORY

## BMH Technology's TYRANNOSAURUS Crushes Waste Refining Downtime with Parker's Gold Cup

### CHALLENGE

BMH Technology, a global leader in industrial scale waste refining and solid biofuel handing systems, is challenged with turning its customers' municipal, industrial, commercial, and wood-based waste into raw materials and renewable energy. BMH Technology provides turn-key plant solutions, stand-alone shredders and crushers, a variety of bulk material handling equipment and a complete set of life cycle services for its customers around the world.

With global population growth, urbanization, and improvements in the quality of life accelerating the production of waste into valuable reusable materials and energy, BMH's products are in high-demand and critical to the world's supply chain and environment. In order to meet this unprecedented demand, BMH's core products, TYRANNOSAURUS Shredders and Crushers, can practically run 24/7. As a result, a lengthy downtime or maintenance process is not a viable option for its TYRANNOSAURUS customers.

### SOLUTION

Due to BMH customers' demand needs for almost 24/7 equipment uptime, BMH needed to find a reliable hydraulic component supplier to operate their TYRANNOSAURUS Shredders and Crushers with as little downtime as possible.

Parker's Gold Cup Hydrostatic Pump and Motors were a key component selection since they supply the hydraulic power to operate the TYRANNOSAURUS Shredders and Crushers. In addition, Gold Cup's inherent design characteristics perform well under high shock conditions to reduce system pressure spikes and increase the overall life of system components.

As a result, BMH Technology, Parker Sales Company, and Parker's Hydraulic Pump and Power Systems (HPS) partnered together to design a complete hydraulic system for the TYRANNOSAURUS crusher that encompassed the following key features:



### MARKET

Waste Refining

### CUSTOMER

BMH Technology

### APPLICATION

Crusher

### SOLUTION

Gold Cup Hydrostatic Pumps and Motors

### RESULTS

- Improved crusher reliability = less downtime
- Reduced inventory with parts commonality
- Increased customer operating capacity

ENGINEERING YOUR SUCCESS.

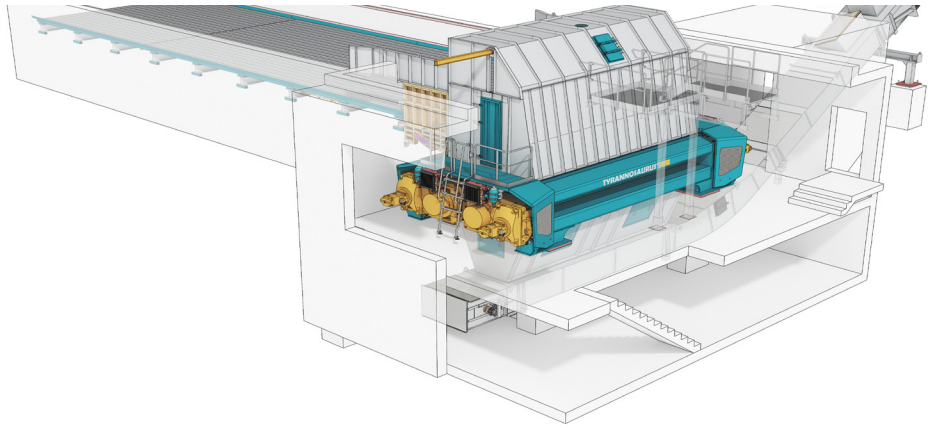
- A modular system easily adaptable to meet the capacity demand of each crusher size
- A consistent pump set-up, interchangeable with the majority of TYRANNOSAURUS crushers, limiting the amount of aftermarket parts
- A hydraulic system comprised of an efficient filter and tank system intended to protect the hydraulics, due to an unexpected malfunction or sudden breakage

## RESULTS

Since implementing Parker's Hydraulic Pump and Power System's Gold Cup Hydrostatic Pump to BMH's TYRANNOSAURUS, customers' satisfaction with the crushers' workload and reliability has increased.

For example, power plants and energy production requirements for higher reliability has been reached with the use of the Gold Cup.

Finally, the number of pump replacement parts has been reduced due to the utilization of the same Gold Cup for a variety of crusher sizes.



BMH's crushing station can be part of a complete fuel handling system or an entirely separate unit.



Parker's Gold Cup Hydrostatic Pumps and Motors

“We have seen a trend that in the future these 'Mega Factories' are in high-capacity load. The Parker Gold Cup pump has been a reliable and robust pump for use in the TYRANNOSAURUS. Since we have worked with Parker's configured modular pump setup, there are less variations for the aftermarket use, as the same pump can be used in several TYRANNOSAURUS crusher sizes and types.”

Janne Rautevaara, Product Group Manager, Shredding and Crushing at BMH Technology



Parker Hannifin Corporation  
**Hydraulic Pump and Power Systems**  
 14249 Industrial Parkway  
 Marysville, OH 43040

[www.parker.com/hps](http://www.parker.com/hps)

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