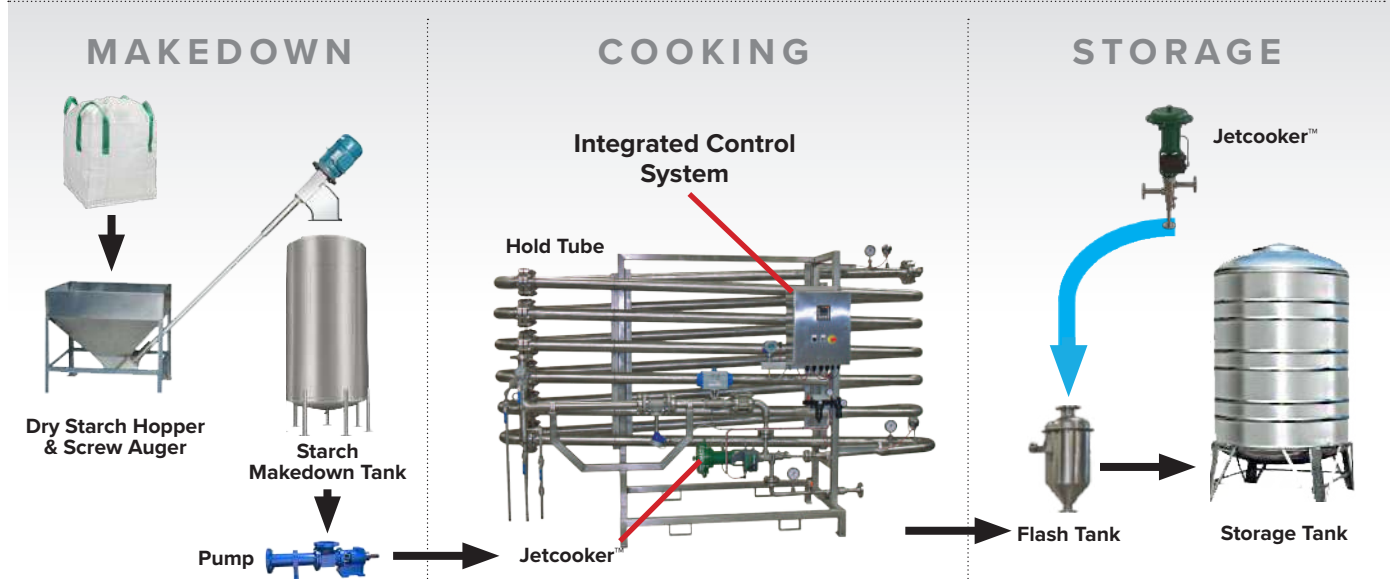


Optimize Your Starch Cooking Capabilities

Starch cooking is a vital component in successful paper production, ensuring that producers have a reliable supply of consistently cooked starch for improving wet end sheet strength, size press surface properties, and overall coating quality.

Modern starch systems are comprised of three core modules coordinated through an integrated control system:



Starch Makedown

- Automated dry starch metering to required percent solids concentration
- Batch or continuous makedown integrated (into the starch cooking system)

Starch Cooking Skid

- Direct Steam Injection technology (Jetcooker™) precisely controls shear and temperature, providing optimal starch yield
- Consistently cooked starch with uniform viscosity enables optimal sheet quality

Cooked Starch Handling

- Integrated tempered water to achieve optimum storage temperature
- Controlled dilution to precise percent solids

Integrated Control System

- Integrated controls adjust cooking parameters to accommodate a variety of formulations
- Customizable controls system to facilitate the base starch cooking system or the comprehensive starch cooking process
- Enables continuous or semi-batch methodology, warm-up, cooking & flush cycles
- Fully compatible with plant DCS

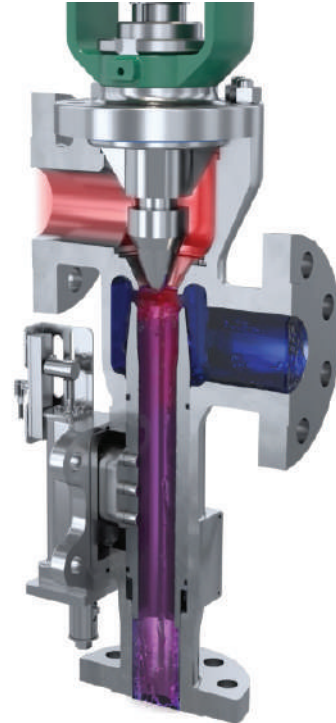
What does your mill need from a starch cooking system?

Select the Optimal Starch Cooker

Eliminate inconsistent cooked starch quality, equipment issues, hammer & vibration

Install a state-of-the-art starch cooking system, incorporating genuine Jetcooker™ technology from Hydro-Thermal.

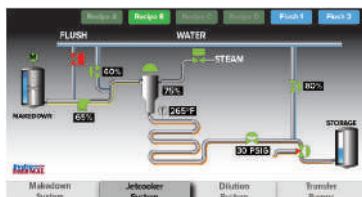
- Precisely-controlled shear and temperature for optimal starch yield
- 100% energy efficient
- No hammer, vibration, fouling or scaling is produced
- Requires little maintenance



Minimize operation intervention with Integrated Controls

Replace segmented/multi-stage controls requiring hands-on operation

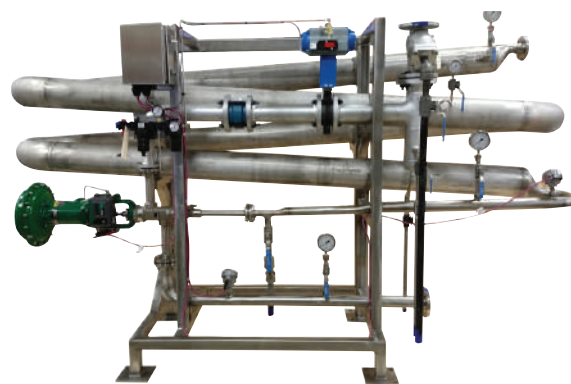
Install an integrated, adjustable control system, enabling continuous or semi-batch methodologies, warm-up, cooking & flush cycles. It also includes a localized panel and/or plant DCS integration, enabling push-button starch recipe and flush cycle control.



Achieve System Flexibility

Upgrade limited, pre-defined system capabilities requiring manual operator intervention and debugging

Pursue a seamless, integrated starch cooking process flow, from makedown to storage. Complete and customizable starch cooking capabilities are all a part of this system, as well as automated, batch to continuous process capabilities.



Hydro-Thermal starch cooking systems:

- › Predictively achieve **optimal, consistently cooked** starch with **uniform viscosity**
- › Provide **best-in-class heating** design/technology
- › Supported by **decades** of starch cooking experience and **hundreds** of systems currently in application



Made
in the
USA

The choice is clear – choose Hydro-Thermal – the experts in starch cooking.

Need more information about Hydro-Thermal products?

Go to www.hydro-thermal.com or
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