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Activated Carbon Case Study

Application:

Continually produce a carbon mixture with **consistency** and **quality** to later be extruded into pellets for carbon activated filtration.

Challenge:

Achieve a balance between feed rate, shaft speed, and discharge slide gate to obtain proper die pressure characteristics necessary for later extrusion. Additionally, **moisture level of carbon mix needs to be maintained** for product consistency.

Process Conditions:

Proprietary carbon mixture
Trim water as needed
Jacket Temp 126-156°F
Shaft Speed 150-250 rpm



Solution:

Experimenting with different feed rates, shaft speeds, and slide gate apertures, Readco was able to achieve optimal die pressure readings while maximizing throughput.

Benefits:

In addition to **customizable paddle arrangements**, the Readco Continuous Processor's jacketed barrels and (optional) cored shafts allow for the introduction of **heating or cooling** mediums into the process providing **greater process flexibility**.

Additionally, **the ability to control the product discharge** through the use of a slide gate allows for controlled product consistency as well as throughput.

Continuous Processor—CP

Features and Benefits:

Customized Paddle Arrangement
Shorter Cycle Time
Fewer Process Steps
Less Waste
Product Consistency