

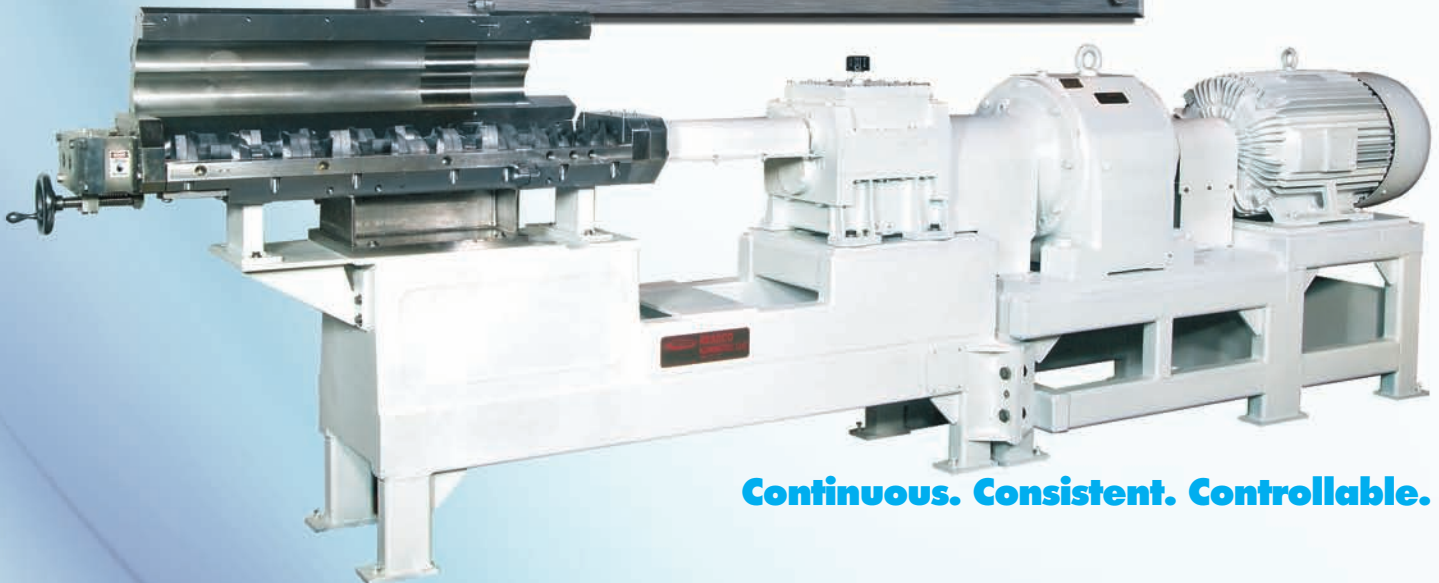


**READCO**  
**KURIMOTO, LLC**

*Continuous Mixing. Continuous Expertise.*

# HDCP

## Heavy Duty Continuous Processor



**Continuous. Consistent. Controllable.**

The HDCP series continuous mixer by Readco Kurimoto, LLC provides a vast array of flexible options to solve your mixing problem.

The unique design of this twin shaft, co-rotating, overlapping machine has many features found on conventional extruders at a significantly lower cost.

Multiple dry raw ingredients can be fed into the barrel where large void volume screws convey the ingredients into the barrel for intensive mixing, shearing, and kneading and compounding.

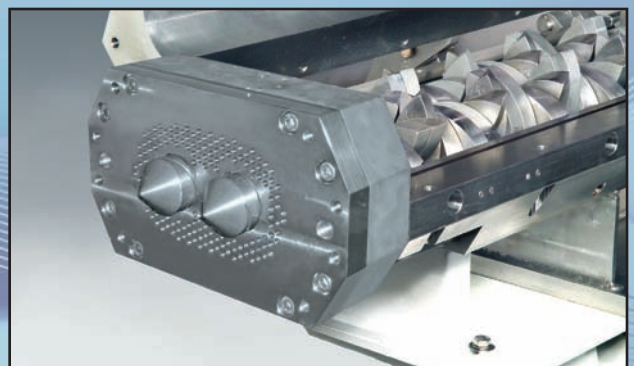
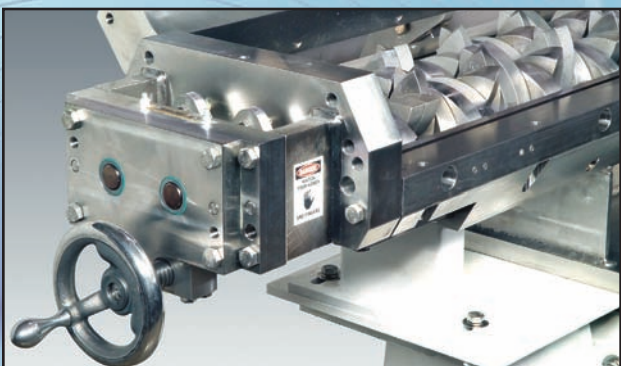
Multiple liquid ingredients can also be added along the barrel length through injection ports.

The unique flat, helical, and reverse helical elements are arranged to provide the precise shearing/conveying/compounding profile for your specific product.

With its unique mixing action, the HDCP assures complete uniform mixing. The co-rotation of the twin assemblies provides a continual variation in product volume between the paddles and the barrel wall. At the same time the action of the paddles produces high distributive mixing action, as opposed to the highly dispersive mixing action produced in a conventional extruder.

With flexible 7/1 or 10/1 L/D, (40% longer than standard) increased mixing and heat transfer can be imparted on your product as it travels down the barrel.

**Material can exit the unit either in a downward direction or directly out the end of the unit to suit your specific process arrangement.**



# Typical applications for the HDCP include:

**Battery Paste  
Composites  
Forming  
Herbicide  
Paper Coating  
Plastic Compounding**

**Plastic Wood  
PVC Compounding  
Powdered Coating  
Reaction Compounding  
Rubber**

## Batch versus Extruder versus Continuous Comparison

ITEM	BATCH	EXTRUDER	CONTINUOUS
Consistency of Product Quality	Batch to Batch Variations	NA	Consistency Controls By Feeders & Pumps
Floor Space	Usually Large Area	Large Footprint	Small Footprint
Total Mixing Time	Very Long 10 Minutes to Several Hours	5 to 10 minutes	Very Short Less than 1 Minute
Clean Up	Labor Intensive & Cumbersome	Labor Intensive & Cumbersome	Very Quick, Clean In Place
Work In Process	Required	Some Required	On Demand Production
Multi Stage Processes	Usually Single Step	Can Accommodate Some Processes	Can Accommodate Many Processes
Utility Costs	Dependent On Motor Size & Mixing Time	Dependent On Motor Size & Mixing Time	Smaller Motor, Shorter Mixing Time
Environmental Issues	Usually Not Contained	Enclosed, Contained, & Controlled. No Cleanup Issues.	Enclosed, Contained, & Controlled. No Cleanup Issues.
Scrap Potential	Sizable Amount of Scrap	Sizable Amount of Scrap At Startup & Shut Down	Small Amount of Scrap At Startup & Shut Down
Horsepower	High	High	Low
Pressure	Low	High	Medium
Price	Low	High	Medium
Wear	Low	Very High	Low
Fluffy Bulky Materials	Difficult	Very Difficult	Easy

With the 100 horsepower power train (100% increase over standard) the unit can process very difficult to handle products and very high viscosity products.

Pressures up to 800 psi are obtainable.

Special die plates can be provided to form and shape your finished product.

Unit is equipped with a vacuum port with a contoured plug. This port can be used to draw moderate vacuum for removal of moisture or volatile materials or as a second dry feed port.

The barrels are split along the entire length and equipped with a hydraulically operated cylinder to allow the top barrel to open in a "clam shell" action for easy access to the mixer internals for inspection and cleaning.

In either the downward or end discharge the unit is equipped with support bearings on both the feed and discharge end so there is no metal to metal contact of the paddles and barrels.

For more information contact Readco Kurimoto, LLC to learn more about this revolutionary new processor.



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