



LYCO
Manufacturing, Inc.

THE *EXPERTS* IN INNOVATIVE
FOOD PROCESSING MACHINERY

**POTATO
MACHINERY**

ROOT CROP PEELERS/WASHERS/SCRUBBERS

THE WORLD'S SIMPLEST PEELERS WITH THE BEST PRODUCT CONTROL

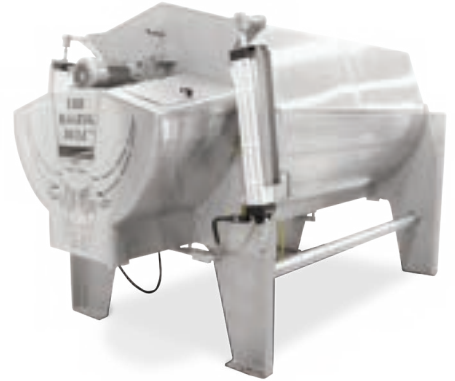
Lyco Manufacturing, Inc. has over 50 years of experience making potato and other food processing machinery. 50 of the Top 100 food processors in North America rely on our expertise in peeling, heating, cooling, and screening. We have sold over 375 Peelers, 850 Cookers, and 1,500 Screens for raw and after steam peeling of potatoes and onions; and scrub clean white potatoes, sweet potatoes, and beets.



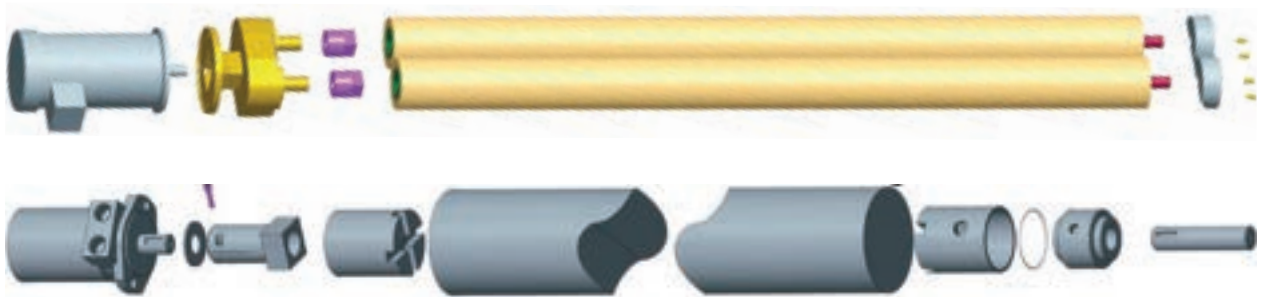
WAR HORSE



BULL JR.



RAGING BULL



BENEFITS OF LYCO'S PRECISION DRIVE TRAIN:

LOW MAINTENANCE

- Fewer parts
- No belts, chains or sprockets
- Auger raises with cover for access
- Easier to clean and change rolls

PRECISE PROCESS CONTROL

- Full length auger
- Hydraulic or electric motor drive
- No under-peeling or over-peeling
- Higher yields

SUGGESTED APPLICATIONS



SWEET POTATOES

WHITE POTATOES

RED BEETS

CARROTS

FRENCH FRIES



For more information visit: www.LycoMfg.com



LYCO HEATING AND COOLING TECHNOLOGY

Lyco Manufacturing, Inc. has over 50 years of experience making innovative food processing machines and screens.

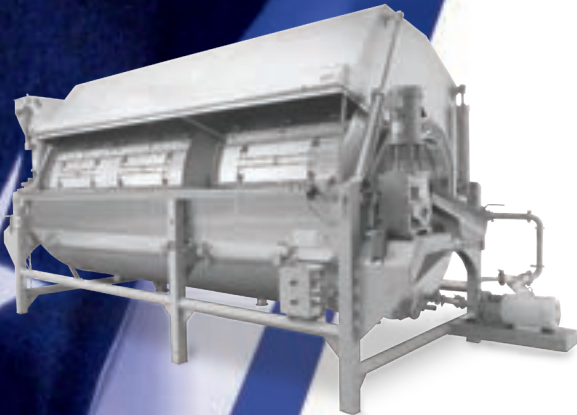
ROTARY DRUM BLANCHERS

Many different models of rotary drum blanchers have been developed over the past 100 years. Lyco has shipped 850 blanchers since 1985.

Rotary drums: cylinders with augers covered with screens that carry 200 pounds of product between each pair of flights through hot water.

Water Blancher applications: potatoes, peas, corn, green beans, carrots, dry beans, rice, pasta, spinach, kale, and onions

Vapor-Flow® Steam Blancher applications: shredded, slabbed, or diced potatoes, peas, corn, carrots, peppers, spinach, kale, and onions



Rotary Drum Water or Steam Cooker-Cooler

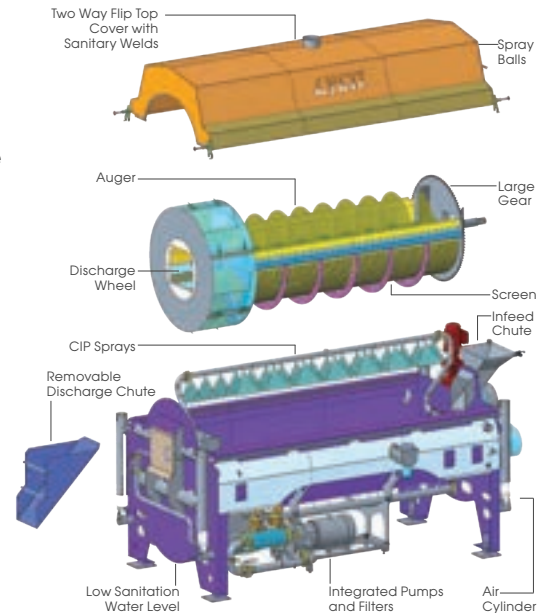
CLEAN-FLOW'S® REVOLUTIONARY BLANCHER DESIGN

In contrast to a cylinder design, Clean-Flow® is an open auger design with a wedgewire basket underneath that contains product between the auger flights. Hydro-Flow® Agitation keeps the products suspended and gently turning over.

During cleaning the auger, basket and discharge wheel are rotated 360 degrees under CIP Sprays until the entire interior of the machine are 99% self-cleaned.



Clean-Flow® Cooker/Cooler



CLEAN-FLOW® BENEFITS:

- Stores recipes
- Rapid cleaning
- Better cleaning
- Low maintenance
- Suspends product
- Zero sticking or clumping
- Higher quality and recovery
- No dense mass to cook
- No under-cooking
- Each particle uniform
- No product damage
- Reduced waste

SUGGESTED APPLICATIONS

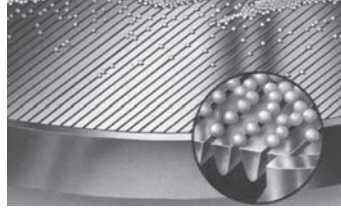


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LYCO WASTEWATER SCREENS

SINGLE AND DOUBLE DRUM SCREENS

In the 1980's, Lyco's first screens were made for the canning and freezing industry. These Single Drum Screens were used for dewatering food items and simple waste-water applications. As applications became more complex we developed our Double Drum Screen. Lyco screens are now recognized as the world's best.



PRECISION WEDGEWIRE



ONE TRAVELING SPRAY



NO FAIL RINGS



Double Drum Screen Action

We don't just compete on price! Lyco is a world-class food machinery company, and we understand unique applications. We design our equipment to be precise, sanitary, cleanable, and robust. We build longevity into our machines for year-round, continuous applications such as potatoes. Our running rings don't fail - even while our screens handle over 3,000 gallons of water per minute.

PLANT DISCHARGE REDUCTION:

TKN: 30%

TSS: 53%

COD: 34%

TDS: 20%

EXTERNAL-FLOW™ SCREENS

Lyco's latest innovation, the External-Flow™ Screen, is the perfect solution for screening materials that won't easily pass through screens by gravity.

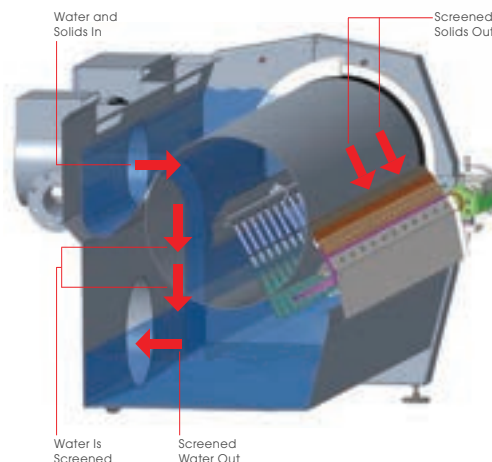
Material enters a headbox behind the cylinder and adheres to the top of the screen. It travels over the top to the other side, where a doctor blade scrapes the material. The water screens as it flows through the cylinder.

BENEFITS:

- Lyco has over 1,800 screens used in the food & beverage industries
- Proven rugged, low-maintenance construction
- Doctor blade helps reduce blinding
- Lower BOD, TSS, and TKN with reduced hauling costs and higher recovery
- Uses less chemicals in post-water treatments



External-Flow™ Screen





Micro Drum Screen

MICRO DRUM SCREENS REMOVE 30% MORE WASTE

Standard food wastewater screens can remove items larger than .020 inches in diameter. Lyco's Micro Drum Screens use three changeable types of screens to remove waste material as small as .008 inches to .005 inches in diameter; effectively removing 30% more solids.

APPLICATIONS:

- Vegetable waste
- Potato waste
- Carrot peel waste
- Seafood waste
- Poultry waste
- Pet food waste

BENEFITS:

- Reduce city loading
- Increase lagoon life
- Reduce DAF chemicals
- Automated CIP

ON-SITE TEST IMPROVEMENT RESULTS:

BOD: 24.4%	TSS: 29.51%	TKN: 14.79%
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LOW-COST WATER WITH LYCO'S ZERO MAINTENANCE SCREENS

You can drastically reduce ever-rising water costs by effectively screening and reusing your processing water.

Lyco's Sanitary Zero Maintenance Screen eliminates daily lubrication and labor because it is the lowest maintenance screen in the food industry.

A dual canister filtering system senses plugged filters and will automatically change them on-the-fly, reducing post-treatment costs.



Zero Maintenance Screen

RETURN ON INVESTMENT IN LESS THAN ONE YEAR*:

24 inch diameter x 72 inch screen will save up to 350 gal/min
 2 shifts x 260 days per year = 82 million gal/year
 Savings of 82 million gallons of water will save
\$350,000-400,000 per year

* Typical results, initial investment will cost \$150,000-200,000.

Dual Filter System



SEND US YOUR COSTS FOR AN ROI ANALYSIS!

SUGGESTED APPLICATIONS



PROTEINS VEGETABLES POTATOES MEAT PROCESSING WASTEWATER



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TRUST IN LYCO'S 50 YEARS OF EXPERIENCE

50 of the Top 100 North American food companies that feed the world trust and rely on Lyco Food Processing Machinery.

Our innovations in the Heating/Cooling and Liquid-Solid Separation machinery have made us a global leader and an expert in the food processing industry.

Our extensive equipment offerings include:

- Blanchers/Cookers/Coolers
- Wastewater/Liquid-Solid Separation
- Peelers/Washers/Scrubbers
- Green Bean Equipment
- After Market Services

For more information visit: www.LycoMfg.com

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