

# Railcar Dumping System



## A HISTORY OF PRODUCT SOLUTIONS

For more than 125 years, Heyl & Patterson have been providing custom-engineered bulk transfer and thermal processing equipment solutions to industries worldwide. Combining cutting edge technology, with superior serviceability, as well as a commitment to meet and exceed our client's needs – Heyl & Patterson is well positioned to provide new product solutions for many years to come.

## WHEN YOU NEED TO UNLOAD PRODUCT EFFICIENTLY

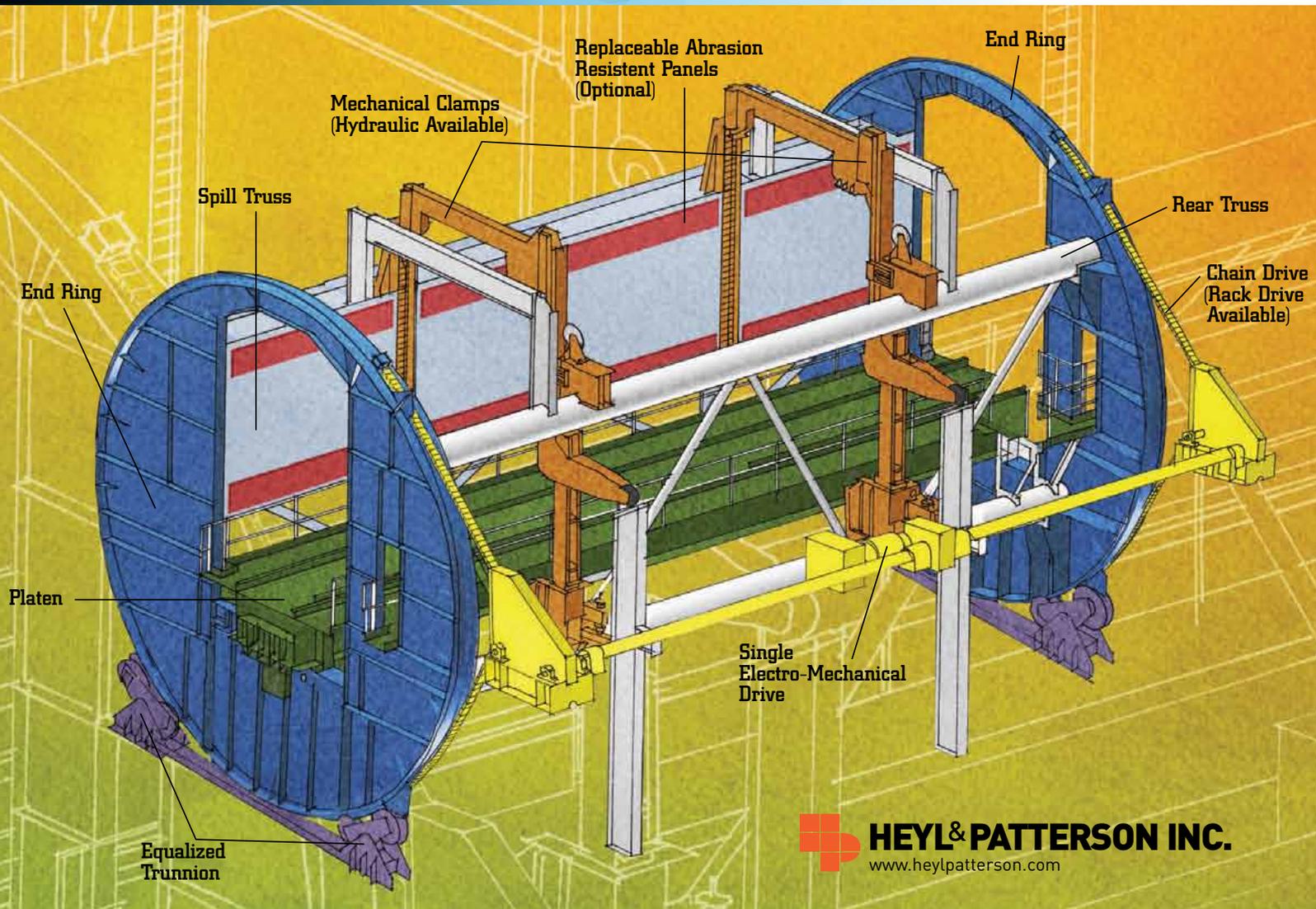
When it comes to efficiency, Heyl & Patterson's solutions simplify work processes, saves time and money and creates a safer work environment. With

Heyl & Patterson's Railcar Dumping Systems you get an intelligent design in a cost-effective, all purpose workhorse.

Combining robust design and easy-to-erect components with innovative, customizable upgrade options, such as mechanical and hydraulic car clamps, chain or rack and pinion drives with a variable frequency drive, Heyl & Patterson's Railcar Dumping Systems are manufactured using three industry leading design options, Rotary, Turnover or C-Shaped. And all are backed by engineering and service from inception, to installation, to operation.

No matter where in the world your operations are located and regardless of the payloads of today or the demands of tomorrow – Heyl & Patterson can provide you with precision engineered products to assure your success for many decades to come.

# Railcar Dumping System



 **HEYL & PATTERSON INC.**  
www.heylpatterson.com

## MECHANICAL FEATURES

- Spill Girder with replaceable high impact abrasion resistant panels – for aluminum cars
- Off line centralized hydraulic power units
- Railcar Retarders
- Integrated Scale – NTEP certified to plus or minus .2% accuracy
- Equalized Trunnions – with our double labyrinth seals for wet surfaces
- Dust collection/suppression (option)
- Grizzly options or Bottom Dump conversions - when necessary, or for emergency backup (optional)
- Drives – efficient single-reducer design
- A variety of Drive Chain sizes
- Railcar Clamps – mechanical or hydraulic (aluminum railcar compatible)
- Chain Anchor with stress relief feature
- Dumper Over-Travel Bumpers
- AutoLube system (option available)

## ELECTRICAL FEATURES

- Regenerative state-of-the-art controllers – fully programmable
- IR Tag Reader – automatic documentation and wrong-way detection
- Mechanical Disc Brakes
- Closed Circuit Monitoring – round-the-clock system viewing and documentation

# Railcar Dumping System



Dumper construction

## C-SHAPED ROTARY DUMPER

Heyl & Patterson's C-Shaped Rotary Dumper, or "CR" Dumper, is used worldwide at sites where high speed dumping of random, rotary and non-rotary coupled cars is required. Combined with low power advantages, fast cycle times and full positioned access, the CR Dumper can help you achieve maximum productivity with maximum results.



Vintage photo from our archive.

## OUR SYSTEM WILL GET YOU MOVING

With Heyl & Patterson, the choice is yours. Our railcar dumping systems offers state-of-the-art capabilities with built-in flexibility that you can easily adapt to your operations. With options like an NTEP Certified Weigh Scale, a Hammermill that clears frozen materials and single or tandem barrel dumpers, depending on your production requirements, we'll provide the right dumping system that will keep you moving forward.

## ROTARY CAR DUMPER

For high speed semi-automatic dumping of rotary coupled railcars, the H&P rotary dumper is your ideal choice. With cycle times as fast as 35 seconds per car and 10,000 plus tons per hour, Heyl & Patterson's Rotary Car Dumper can be controlled by just one operator and is ideal for random car or unit train applications.



Rotary Car Dumper



Turnover

## TURNOVER DUMPER

When your site considerations call for a combination of shallow foundations and track-level receiving hoppers, the H&P Turnover Dumper is your best choice. Ideal for low to moderate throughput applications, H&P's Turnover Dumper offers you lower overall construction costs, shallower dumping pits and accelerated construction schedules.



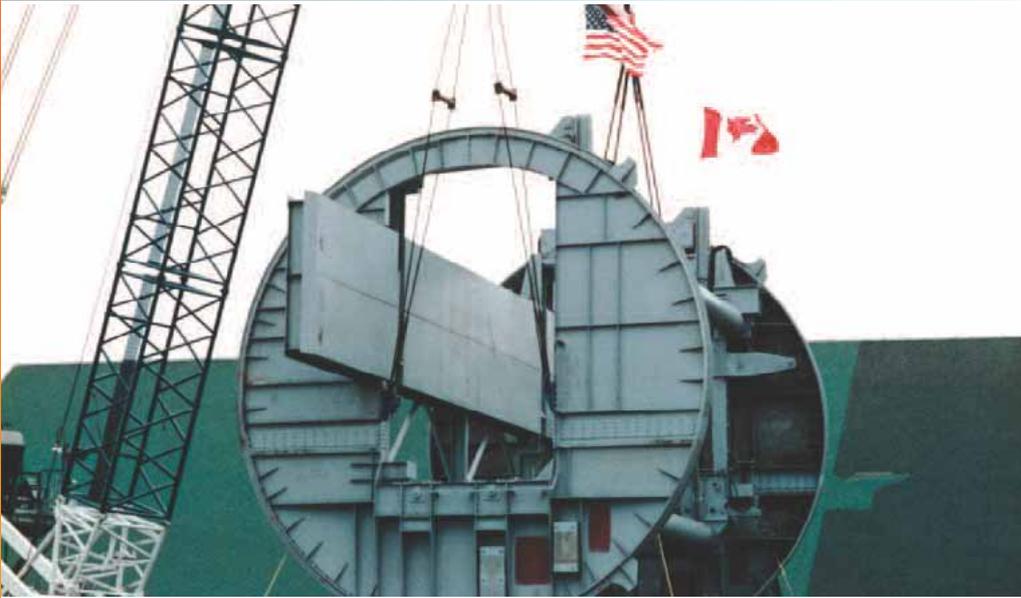
C-Shaped Rotary Dumper

## THE HEYL & PATTERSON HAMMERMILL

Fast, Rugged and Efficient!

- It's **FAST**: The H&P Hammermill doesn't require a crew or use any unsafe methods, such as working on the grizzly or expensive, environmentally unfriendly anti-freeze chemicals.
- It's **RUGGED**: With design simplicity that assures uninterrupted service, many of our Hammermills have been operating for decades.
- It's **ENERGY EFFICIENT**: Compared to competing methods using the onsite electricity.
- It's **OPERATIONALLY EFFICIENT**: Additional crew is unnecessary because of dumper operator controls.

# Railcar Dumping System



Barrel replacements

## MOVING YOUR RAILCARS INTO POSITION

Heyl & Patterson also offers a complete line of car movers that provide state-of-the-art modern operation and efficiency. Our train movers can push or pull trains through the dumper semi-automatically, without locomotive assistance, offering more capabilities for today's and tomorrow's trainloads.

## TRAIN POSITIONER

H&P's Train Positioner can be retrofit into your existing installations and is used where fast, semi-automatic cycle times can eliminate the need for operator intervention. Capable of moving a loaded train or single car for a precise distance at variable speeds, it is typically employed in high capacity, rotary-coupled, unit-train railcar applications. Used in conjunction with a rotary dumper, the train positioner can move entire trains, up to 200 cars.



Train Positioner

## CAR INDEXERS

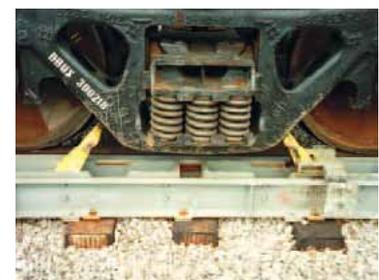
H&P's Car Indexer is engineered for when you must handle mixed railcar trains that require uncoupling before dumping. Designed to handle up to 30 railcars in a string, H&P's car indexer is the mover of choice when working with rotary-coupled cars or random car applications. Easily retrofitted into existing installations, the car indexer eliminates the need for locomotive assistance during offloading.



Car Indexer

## CUB

When you think of the CUB™, think compact, capable and cost-effective. The CUB is an electro-mechanical machine specifically designed to move single railcars or groups of cars. Backed by H&P's experienced engineers and technicians, the CUB is easy to operate and install and less costly than larger systems, making it the ideal solution for small to mid-size loading, unloading and repositioning.



CUB Car mover

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