



# WAGON TIPPLERS AND SIDE ARM CHARGERS

**Heyl & Patterson Inc. – a history of trust and innovation.**



Wagon Tippler under construction

**For 125 years, Heyl & Patterson has provided high quality, reliable, custom-engineered solutions that are trusted by industries worldwide.**

- Company formed in 1887
- First railcar tippler built in 1939
- Platen weigh scale developed in 1955 – Accuracy to  $\pm 0.2\%$
- First Heyl & Patterson tippler in India in 1964
- Experience with Wagon Tipplers installed around the world
- Executing order for India's National Thermal Power Corporation in 2010
- Meets RSDO specifications in India
- Verified design through finite element stress analysis
- Experienced field service team ensures ongoing quality



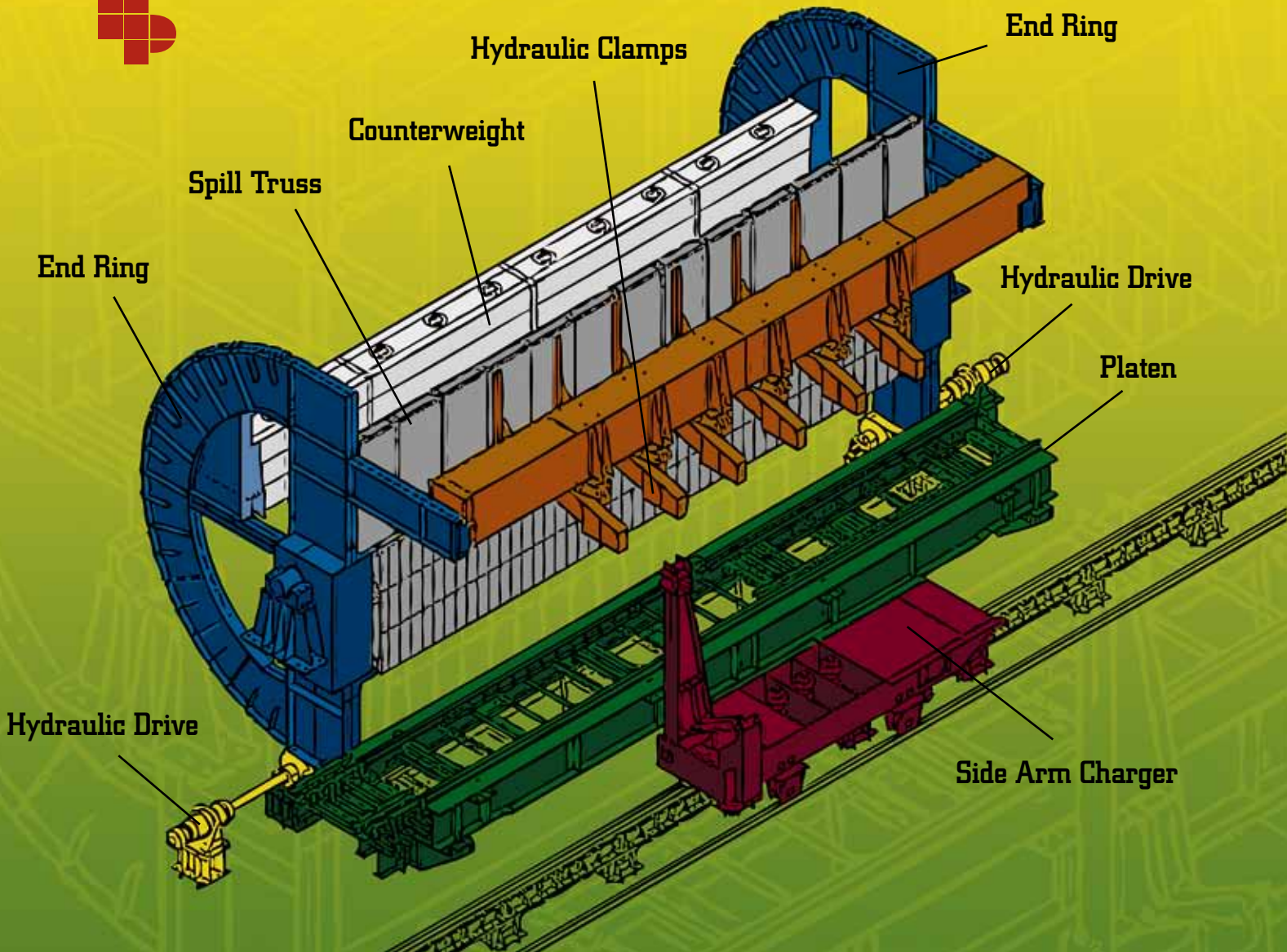
Vintage photo from our archive.

**Heyl & Patterson becomes a real partner in your operations for the life of your equipment, with:**

- High-speed, semi-automatic unloading
- Various designs – Single, Tandem, Rotary, Turnover, C-Shaped
- Rotation speeds as fast as 35 seconds
- Rotate drive – Rack & Pinion or Chain
- Side arm chargers eliminate the need for locomotive assistance, handling up to 60 railcars in a string
- Inspections, upgrades and field service



Side Arm Charger



In an exclusive agreement with FLSmidth India, Heyl & Patterson designs Wagon Tippers and Side Arm Chargers, and is responsible for the performance of the design. Fabrication takes place in India, with shops that both Heyl & Patterson and FLSmidth have qualified and approved. Inspection during fabrication, as well as startup during erection, is jointly performed by Heyl & Patterson and FLSmidth as needed.



Wagon Tippler at 150-degree rotation



**Heyl & Patterson Inc.**  
 PO Box 36  
 Pittsburgh, Pennsylvania 15230  
 USA

PHONE 412-788-9810 | FAX 412-788-9822  
 EMAIL info@heylpatterson.com | www.heylpatterson.com



**FLSmidth Private Limited**  
 FLSmidth House, 34 Egatoor, Kelambakkam  
 (Rajiv Gandhi Salai - Chennai)  
 Tamil Nadu 603 103  
 India

PHONE +91 44 4748 1000 / 3461 | FAX +91 44 2747 0301 / 0302  
 EMAIL indiainfo@flsmidth.com | www.flsmidth.com