

Global Solutions For The Long Haul<sup>SM</sup>



# KRESS CARRIER

## SLAG HANDLING SOLUTIONS



# KRESS SLAG POT CARRIERS

Kress Corporation has been designing and manufacturing slag pot carriers for over 50 years. Kress is the world's leading manufacturer of slag pot carriers, with units in operation throughout the world in the steel, nonferrous, and ferroalloy industries.

Kress slag pot carriers have continued to evolve through technological and engineering advancements and consistently outperform customer expectations.

A compact U-frame design combined with a fully articulated steering system allows excellent maneuverability where dimensional limitations are present. Multiple prime mover options provide power, reliability and efficiency and are certified to meet stringent global emission standards.



## Custom Designed

Each Kress slag pot carrier is custom designed to handle a specific slag pot as well as to accommodate the production requirements and dimensional limitations of each individual job site.

The experienced Kress sales and engineering staff work with each customer to determine the appropriate carrier model to design.

The configuration of each carrier is determined by the slag weight, operating procedures, and haul conditions, with vehicle dimensions governed by the size and configuration of the slag pot.





Kress slag pot carriers can continuously operate in the harshest environments in steel mills and smelters. Specialized design utilizing field proven components ensures a reliable, robust machine. Each Kress carrier is designed to be easily maintained and backed by a ready source of parts and service support. Kress slag pot carriers are available in a wide range of models and capacities to suit your operational needs.





## P-240CTE

### P Series

- Equipped with industrial service rear tires where extremely narrow machine widths are necessary.
- Independently controlled hydraulic lift cylinders located at each rear axle.
- Narrow and low height designs are available for operations with confined access.
- Ranges in capacities from 35 tons (32 tonnes) to 170 tons (154 tonnes).





## PES-320CD

### PES Series

- Designed with large, single earthmover rear tires for jobs with long hauls or poor road conditions.
- Independently controlled hydraulic lift cylinders are designed to enable the machine to pick up pots from uneven ground.
- Lift arrangements feature mechanical support systems with positive hydraulic control for pouring functions.
- Available in capacities from 90 tons (81.6 tonnes) to 210 tons (190 tonnes).





## PRES-220CS

### **PRES Series**

- Well suited for Electric Arc Furnace applications where slag spillage and foamy slag are a concern.
- Can be used to place slag pots on and off of transfer car systems.
- Mechanical axle stops used for supporting the frame when transporting heavy loads.
- Available in capacities from 35 tons (32 tonnes) to 180 tons (163 tonnes).





## PELS-420CS

### PELS Series

- The largest and most robust product in the series.
- Linkage dumping system allows for greater dump angle and higher dump and pullback forces.
- Large rear wheels for applications with long hauls or poor road conditions.
- Available in capacities from 35 tons (32 tonnes) to 250 tons (227 tonnes).





## PR-130CSE

### PR Series

- Designed to pick up slag pots from rail or transfer cars in addition to having normal slag pot carrier functions.
- Particularly suited for operation in electric arc furnace applications where slag spillage and foam are concerns.
- Can transport slag pots for short distances in the reach-back position without the need of outrigger systems.
- Available in capacities up to 140 tons (127 tonnes).





## PRL-330CS

### PRL Series

- Picks up slag pots from transfer cars or platforms.
- Overall carrier width often no wider than that the pot.
- Hydraulic stabilizer cylinders allow carrier to handle large, heavy pots or applications requiring long reachback distances.
- Single rear axle line arrangement.
- Available in capacities up to 165 tons (150 tonnes).



# OPERATOR STATION



## Dual Control Cab

Kress Carriers feature best-in-class cabs that have been developed with operator safety and comfort in mind. Our cabs feature large windows that provide excellent visibility & quickly release for emergency exit. A comfortable rotating and adjustable air-ride seat along with standard heat and air conditioning help enhance operator functionality. Ergonomic controls, easy to read instruments, and adjustable front steering column help ensure safe operation. Kress cabs have also passed ISO 11201:1995(E) & EN 12053:2001 sound test standards.



# OPERATOR STATION

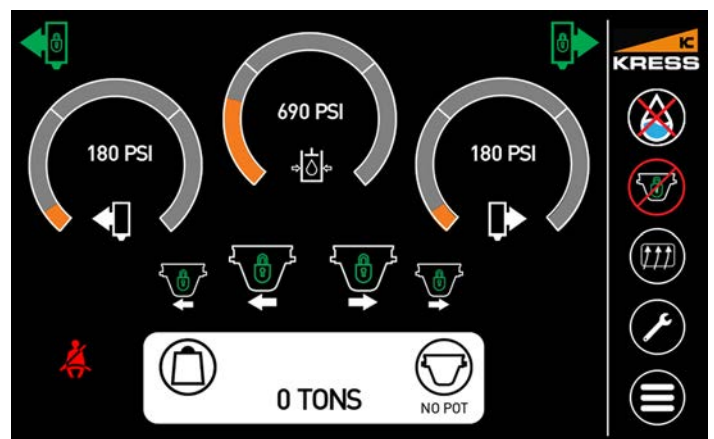


## REAR CONTROLS



### In-cab Technology

Machine functions are easily monitored in the cab utilizing a full color, touchscreen display & custom designed interface. This control system provides the operator with easy access to menus, functions, and key data to help operate the machine safely and efficiently.





# POT KNOCK SYSTEM



## KNOCKING THE POT

### Pot Knock System

Kress slag pot carriers feature a unique, Kress designed "pot knock" or "deskulling" system. This feature is used to efficiently remove remaining slag from inside of the pot after dumping, without damaging the pot. The operator retracts the pot a few inches from a skulling block or knock station, and the dump cylinders are allowed to free fall. The pot will strike the block and dislodge the remaining slag.





## TILTING THE CAB

### Cab Tilt System

Kress carriers feature a versatile cab tilt system to allow access to the engine compartment and under cab components when maintenance is required. The cab is easily tilted forward via a ground level switch, and manually locked into place for safety until maintenance is complete.



## Productivity

- Articulated Steering- The ability to turn 180 degrees: 90 degrees to the left and 90 degrees to the right, provides an extremely maneuverable machine in tight operating conditions.
- Pot Knock Feature- Kress pot carriers have a "knock" feature which gives the operator the ability to "de-skull" a slag pot without the need for an overhead crane.
- Integrated Control System- A highly advanced machine control and monitoring system. The IQAN system is designed for maximum machine functionality and increased up time. Using the in-cab color touchscreen display, operators can easily monitor machine functions.
- Cab- Fully Integrated HVAC System with well-balanced filtered airflow front & rear for excellent operator comfort.
- U-Frame Design- Efficient lift & dump configuration allows for extremely fast cycle times.
- CAT® Prime Mover- Proven dependability, high horsepower and faster speeds = improved cycle times and higher productivity.
- Wet Disc Brakes- Standard CAT® wet disc brakes on the drive axle provide high braking power.

## Reliability

- Usage of larger components and a simple robust design provides a long life with low operating costs.
- All major pivot points utilize bronze bushings with hardened steel sleeves for long, trouble-free operation.
- Hydraulic cylinders are conservatively designed, and manufactured by Kress Corporation. Cylinder rods are through-hardened, induction hardened, and chrome plated for high strength and long wear.
- Utilization of only the highest quality parts from trusted and reputable global manufacturers to ensure that parts are available when needed the most.
- Access to an experienced product support team that is available 24 hours per day and 7 days per week. Kress prides itself on maximum uptime for all machines in the field.
- Use of integrated and proven Caterpillar® Prime Movers (tractor) provides a strong, dependable powertrain.
- Kress Slag Pot Carrier warranty is 1 year, unlimited hours.



## Standard Features

- Dual Control Cab
- Certified FOPS (Falling Object Protection System)
- Air Ride Seat
- Buddy Seat
- Cushion Hitch
- Cab Tilt Function
- Pot Knock Function
- Custom IQAN Control System
- Standard LED Lighting (Front & Rear)
- Crankcase and Powertrain Guards
- Transmission Cover
- Engine Braking
- Parts & Service Manuals
- 1 year, unlimited hours warranty
- Cold Weather Heater System for Engine & Hydraulic Tank
- Wiggins Quick Fuel Tank Connection
- Eco-Safe FR-46 Hydraulic Fluid - First Fill
- Stainless Steel Hydraulic Tubing
- Dual Stainless Steel Fuel/Hydraulic Tank
- Manual Centralized Grease System - Rear Carrier
- AutoLube Grease System
- Rear Tire Spray System - Liquid Fire Suppressant/Water
- Low Mount Cab
- Rear Turn Signals, Brake Lights
- Evac/Fill Service Center
- Wheel Chocks and Storage Pockets
- External Nitrogen Accumulators Group for Lift Strut Units
- Axle Beam Stops for Lift Strut Units

## Optional Features

- CAT® Premium AM/FM Receiver, MP3, CD, Satellite
- CAT® Work Area Vision System - WAVS Camera and Display
- CAT® ET Diagnostic Interface Tool
- CAT® Product Link ready
- Payload Weigh System
- Machine Data Recording
- Fire Suppression Systems
- Cab Rear Window Shutters
- Cab Window Tinting
- Additional LED Lights (Front & Rear)
- Cab Front Platform & Railing
- Manual Heated or Non-Heated Mirrors - Externally Mounted
- High Decibel Horn
- Engine Power Loss System
- Ground Level Emergency Stop Button
- Ground Level + In-cab Emergency Stop Buttons
- RESPA CF Air Filtration Group (w/ HEPA Filter)
- Prime Mover Sound Suppression Group
- Certified ROPS for CAT/Kress Dual Control Cab
- Kress Safety Windows (Impact Resistant)
- Cab Front Operator Training Seat
- Customizable Tractor & Rear Carrier Shielding
- Rear Carrier Fenders & Chain Heat Shields
- Assist Cylinder for Increased Pull Back Force

## **MAINTENANCE, SERVICE AND SUPPORT**

**Kress slag pot carriers are designed for serviceability, with multiple features that enable faster, more accurate troubleshooting and repairs.**

**Kress carriers are fully supported by Kress Corporation and serviced by select Caterpillar dealers. Parts for Kress carriers may be ordered through Kress Corporation and/or the Caterpillar global parts distribution network.**

**Kress Corporation welcomes the opportunity to work with your company. For more information about Kress carriers, please contact us today.**

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