

# KRESS

## STRADDLE CARRIERS



- ★ RED HOT OR COLD SLABS, BLOOMS, COILS
- ★ SELF LOADING & UNLOADING
- ★ VERY HIGH DENSITY FIELD STORAGE
- ★ SPLIT AND SORT SLABS IN THE FIELD
- ★ EQUAL WHEEL LOADS
- ★ VERY HIGH PERFORMANCE ENVELOPE
- ★ DESIGNED FOR STEEL MILL SERVICE





# Innovative Technology

Kress Straddle Carriers are a result of Kress Corporation's extensive experience in the design and manufacture of special purpose vehicles for steel mills. All models are designed and built for continuous service in severe mill conditions handling both red hot and cold products. Each model uses standardized components and sub-assemblies but the overall carrier dimensions and attachments are custom built to suit the specific application. For this reason, specifications noted here are typical examples for reference only.

Kress Straddle Carriers utilize mechanical powertrains for reliability and efficiency. Four (4) cycle diesel engines drive through multi-speed automatic transmissions to planetary wheel hubs via a vertical drive shaft system. Major components are positioned for good maintenance access.

The smaller capacity models are two-axle design with four-wheel steering and two-wheel drive from a single powertrain.

The larger models feature a three-axle design with four-wheel steer and two-wheel drive from dual powertrains with full electronic synchronization.

Steering is hydraulic with full electronic monitoring and adjustment to provide pure synchronous and proportional Ackerman steering front and rear. Four-wheeled carriers can also offer optional crab steering.

All wheels feature full hydraulic suspension, large E4 earthmover tires of adequate capacity, and large disc brakes to ensure the carriers are capable of providing a very high total performance envelope with safety.





## TYPICAL STRADDLE CARRIER SPECIFICATIONS

<b>Model</b>		<b>ST110T</b>	<b>ST220T</b>	<b>ST330T</b>
Rated Capacity	tonnes	50	100	150
	lbs	110,000	220,000	330,000
Net Vehicle Weight	tonnes	45	86	112
	lbs	100,000	190,000	246,000
Rated Power	kW	198 x 1	168 x 2	216 x 2
	HP	265 x 1	225 x 2	290 x 2
Tires		(4) 18x33	(6) 24x35	(6) 27x49
Lift Stroke	mm	2200	2130	2440
	ft - in	7' 2"	7' 0"	8' 0"
Height	mm	5300	4650	5615
	ft - in	17' 5"	15' 3"	18' 5"
Width	mm	4600	5000	5000
	ft - in	15' 1"	16' 5"	16' 5"

# The System

Kress Straddle Carriers are designed to form the most modern and cost-effective steel mill transportation system. They are ideally suited to moving red hot or cold products such as slabs, blooms, coils, etc. between plant areas and stockyards.

Straddle Carriers are available in a variety of configurations with load capacity ranging from 110,000 lbs (50 tonnes) to 330,000 lbs (150 tonnes).

The layout, and high lift capability, of Kress Straddle Carriers allows them to pass over stockyard rows fully laden and with the ability to randomly access any location in a high density stockyard.

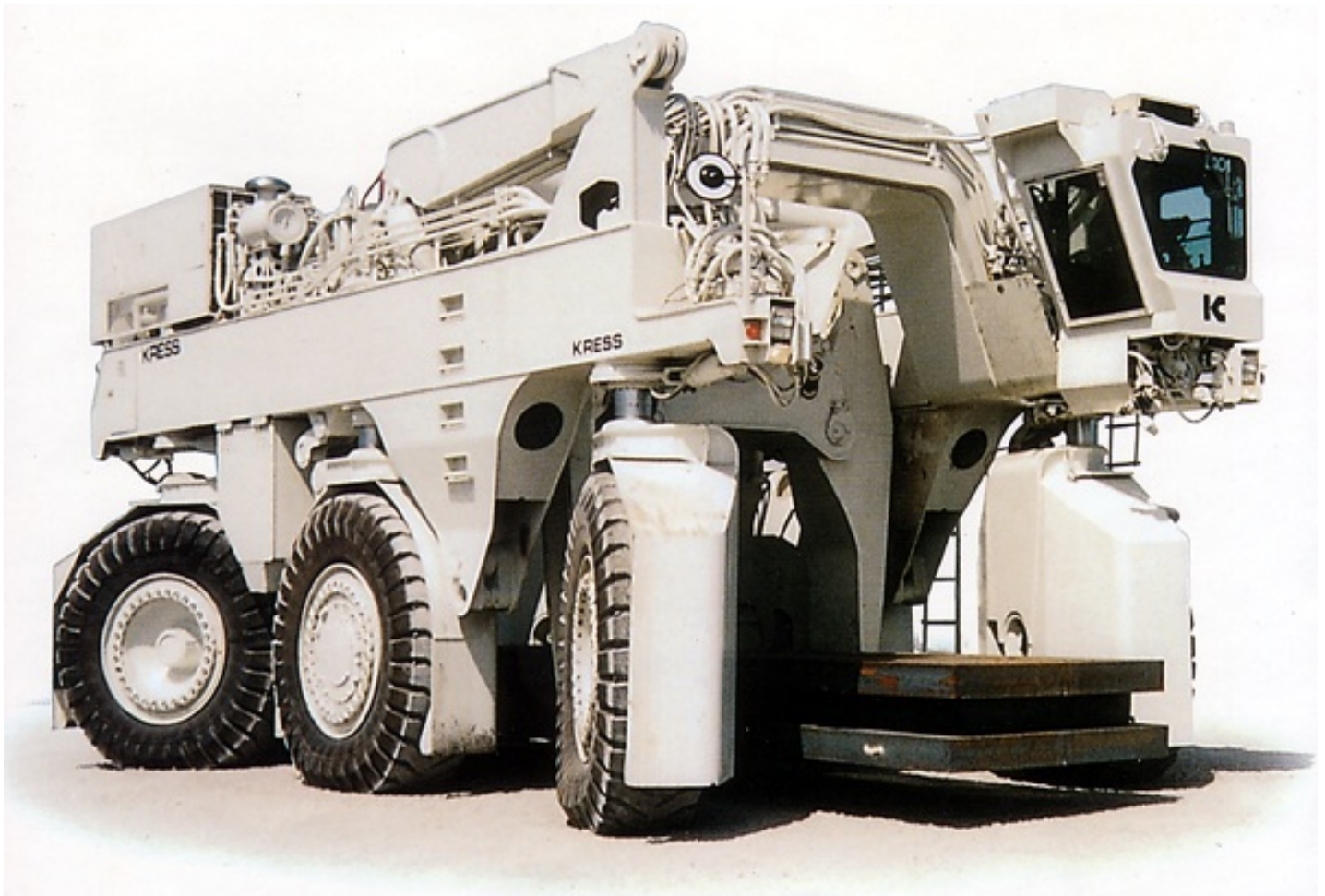
Good maneuverability and the ability to operate on typical heavy vehicle roads gives

infrastructure requirements. Operation with multiple stockyards with linear or herringbone layouts and complex routings is possible, giving straddle carrier-based transport systems unrivaled flexibility.

Straddle Carriers are able to handle large quantities of product very quickly and effectively. Loading, transporting, and unloading cycles can be performed rapidly.

The ability to self load and unload also decouples the carrier operation from the plant being served (e.g. caster or strip mill) to minimize delays and boost carrier utilization.


The combination of high performance and flexibility of Kress Straddle Carriers allows transport tasks to be rationalized to form the



# Kress Carriers for the Metals Industry



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