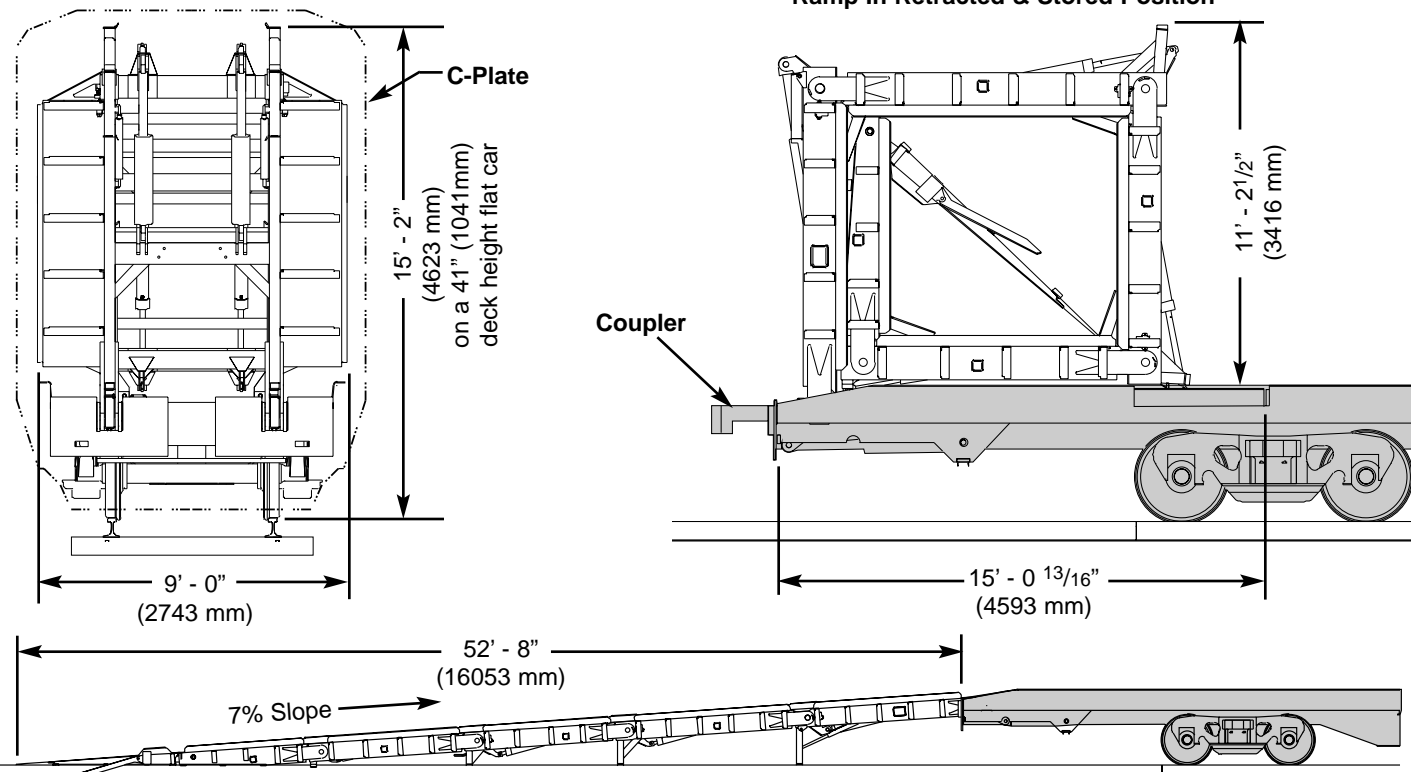


The Scorpion RS64DL Ramp



Description: The Kershaw RS64 Ramp is a "roll-up" loading ramp that can be used to load all work equipment that is normally transported on a flat car. It can load both rail bound and rubber tired machines. Rubber tired and most rail bound machines can climb the 7% slope with ease. A winch is provided for disabled machines or machines that do not have sufficient traction to climb the ramp slope. One man can extend or retract the ramp in under 5 minutes using a remote pushbutton control.

Weight: The ramp adds 13,000 pounds (5900 kg) to the weight of a flat car.

Construction: Welded from tubular steel. Tread bearing areas are made from wear resistant steel.

Engine: Water cooled diesel John Deere 3012DF 27hp (20 kw) @3000rpm.

Winch: Equipped with 5/8 (16 mm) inch wire rope. Retrieval speeds: 12 (3.66 m) feet per minute/high speed; 7 (2.13 m) feet per minute/low speed. Maximum tension: 20,000 pounds (9072 kg).

Hydraulic System: A gear pump is driven directly by the engine providing hydraulic power to the ramp control circuit.. Filters protect the ramp circuits from contamination. A pendant with pushbuttons is used to energize a solenoid directional valve that cycles the ramp.

Electrical System: 12 volt dc negative ground. Maintained by an engine driven 40 amp alternator. Equipped with a special coiled plate 56 amp hour battery. Color coded and numbered wiring.

Loading Capacity: The ramp can support 40,000 pounds (18144 kg) per axle on rail bound machines and 30,000 pounds (13608 kg) per axle on rubber tired machines.

Capacities: Fuel: 11.5 gal. (43.5 l), Hydraulic: 25 gal. (94.6 l), Engine Crankcase: 3.3 qts. (3.1 l), Engine Coolant: 4.4 qts (4.2 l).

Options: Adjustable wheel chocks, turnbuckle tie downs, bridging bar systems to allow movement of machines from one flat car to another.

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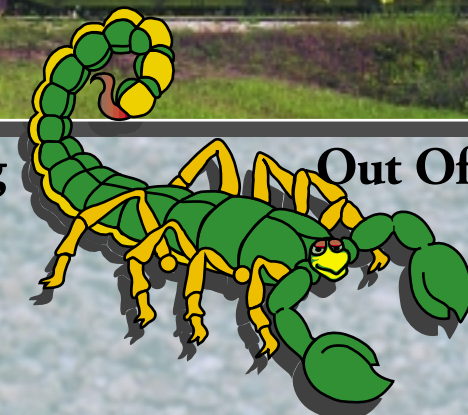
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KERSHAW

The Scorpion Automatic Hydraulic Ramp Car



Takes The Sting Out Of Loading

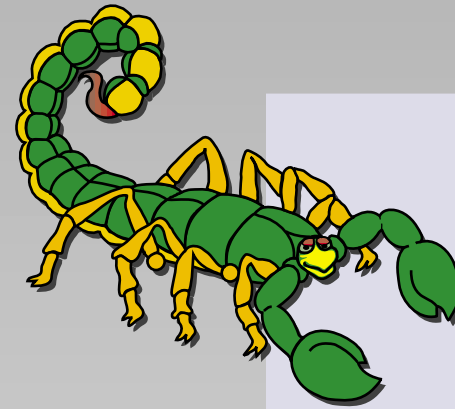


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Extend / Retract Sequence



Travel Position



Design Features



Transporting

When retracted and stored for travel, the Scorpion fits within "C" plate clearance dimensions. Optional bridging bar systems are available to allow movement from one flat car to another. The coupler is retained to allow transportation in train formation.



Stage One



Stage Two



Stage Three



Stage Four



Stage Five



Stage Six



Pendant

The ramp can be deployed or retracted in under 5 minutes by one man using a remote pendant pushbutton control. Legs are automatically positioned to support each section.

The deploy and retract sequence is all fully automatic with stage timing controlled by sequencing valves and cams. The operator simply holds down the deploy or retract button through the complete sequence.



Engine

A self-contained diesel powerplant drives hydraulic pumps to provide power for the hydraulic cylinders and winch. The engine is housed in a lockable enclosure with controls and instrumentation.



Hydraulic & Fuel Tanks

A hydraulic tank and diesel fuel tank share a lockable enclosure with easy access for maintenance and service. Fluid levels are easily checked by observing the sight glass tubes.



Flat Car Installation

The ramp can be installed on a customer provided flat car or can be provided complete with car. The deck and frame must be of welded construction.



Loading

Most machines have no problem climbing the 7% slope to load on the Scorpion. A hydraulic winch is provided for machines that cannot load under their own power.