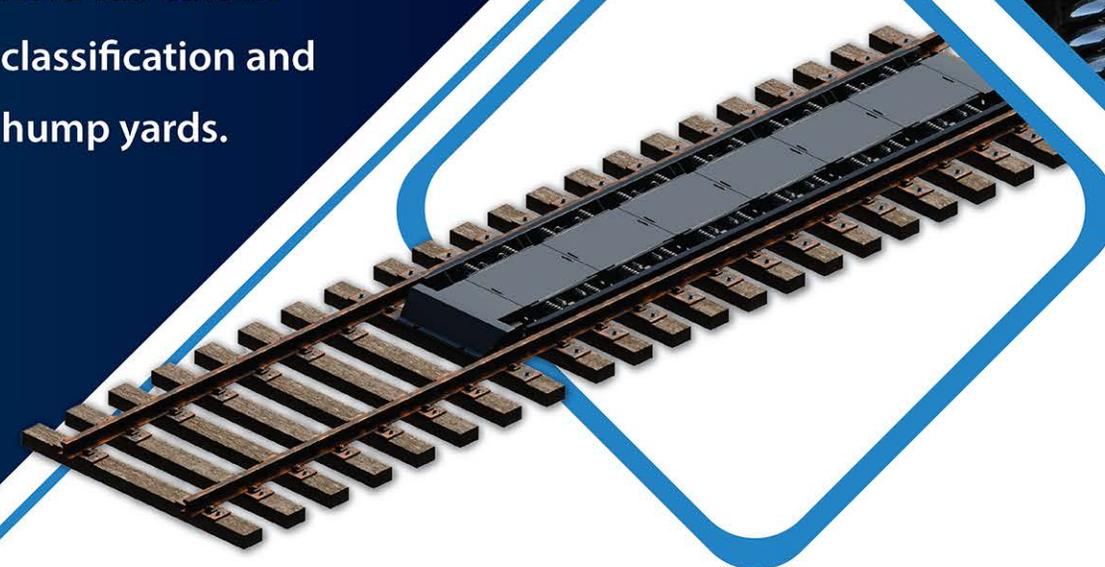
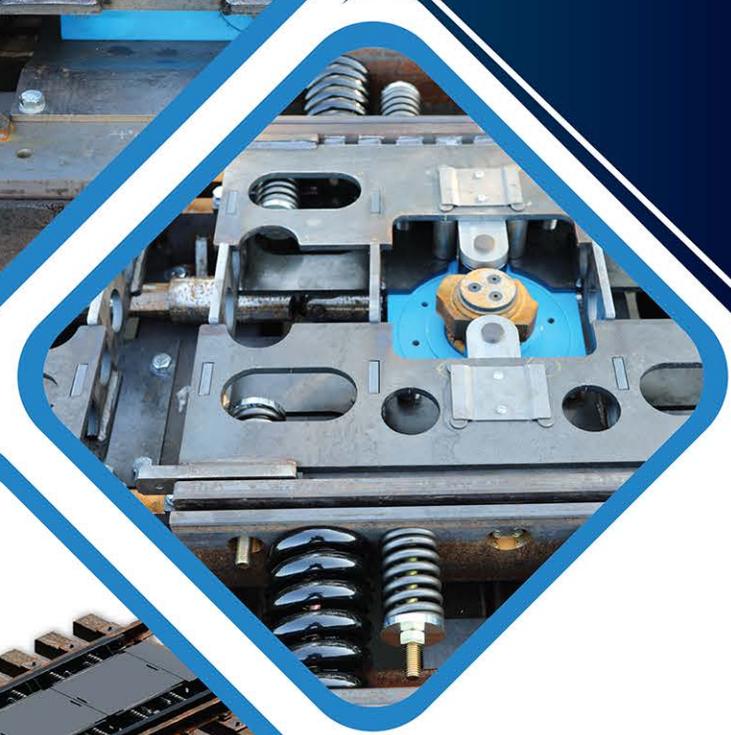


# ASR-23

The ASR-23 is an electrically controlled skate retarder designed to safely stop and hold rail cars in classification and hump yards.



Engineered for smooth operation and optimal performance, the ASR-23 features unique mechanical actuation with a spring return design. It's built for use on 4' 8½" standard gauge track and replaces any powered skate retarder in yard applications. Installed in tandem with a second panel, it applies braking force to both trucks of a rail car. The ASR-23 ensures reliable, efficient car control at key points in rail yard operations.



Scan for more...



[sales@advancedrailsystems.com](mailto:sales@advancedrailsystems.com)



(254) 252-3005



[AdvancedRailSystems.com](http://AdvancedRailSystems.com)

# Model ASR-23 Skate Retarder

480VAC POWER / 24VDC CONTROL

## Physical characteristics

PARAMETER	SPECIFICATION
Track Gauge	Standard, 4' - 8 1/2" (1435 mm)
Rail Size	136RE (136 lbs/yd)
Length	39' - 0" (1188.7 cm)*
Width	9' - 0" (274.3 cm)*
Height	1' - 6 1/4" (46.4 cm)
Estimated Shipping Weight	25,000 lbs (11,340 kgs)

\*Typical dimensions; can vary depending on supplied track material.

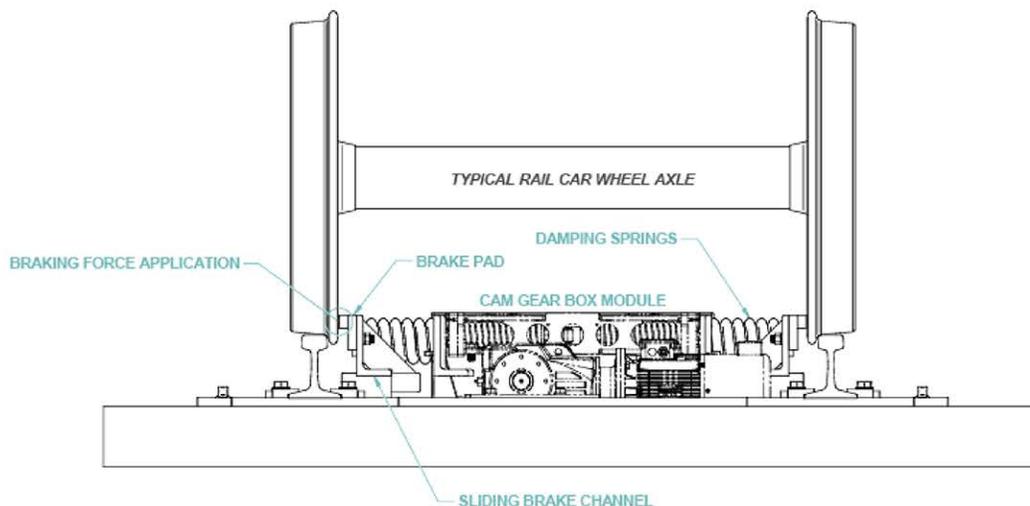
## Operating characteristics

PARAMETER	SPECIFICATION
Average cycle time ('closed' to 'open' position)	20 seconds 40 seconds to 'shim' position
Temperature Range	-40°F + 185°F (-40°C + 85°C)
Retarder position state detection	(3) inductive proximity sensors 9-30VDC 3-wire operation, PNP Normally open (NO)
Control Methods	Remote: control circuits, data/ network communications, or DTMF via VHF/UVF radio Local – Push Button Manual – Hydraulic hand pump

## Electrical characteristics

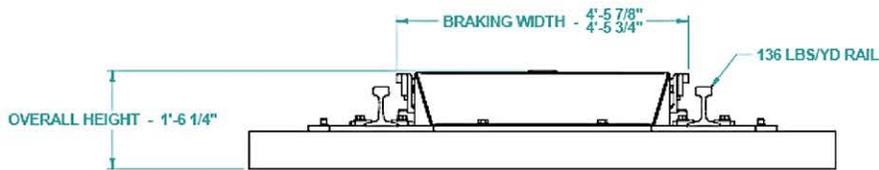
PARAMETER	SPECIFICATION
Drive Motor	469 VAC (3-phase) <b>Minimum rated supply circuit:</b> 480 VAC, 4.5 Amps (+/-2%)
Control Voltage	24 VDC (+/- 5%)

## Retarder Functionality Diagram

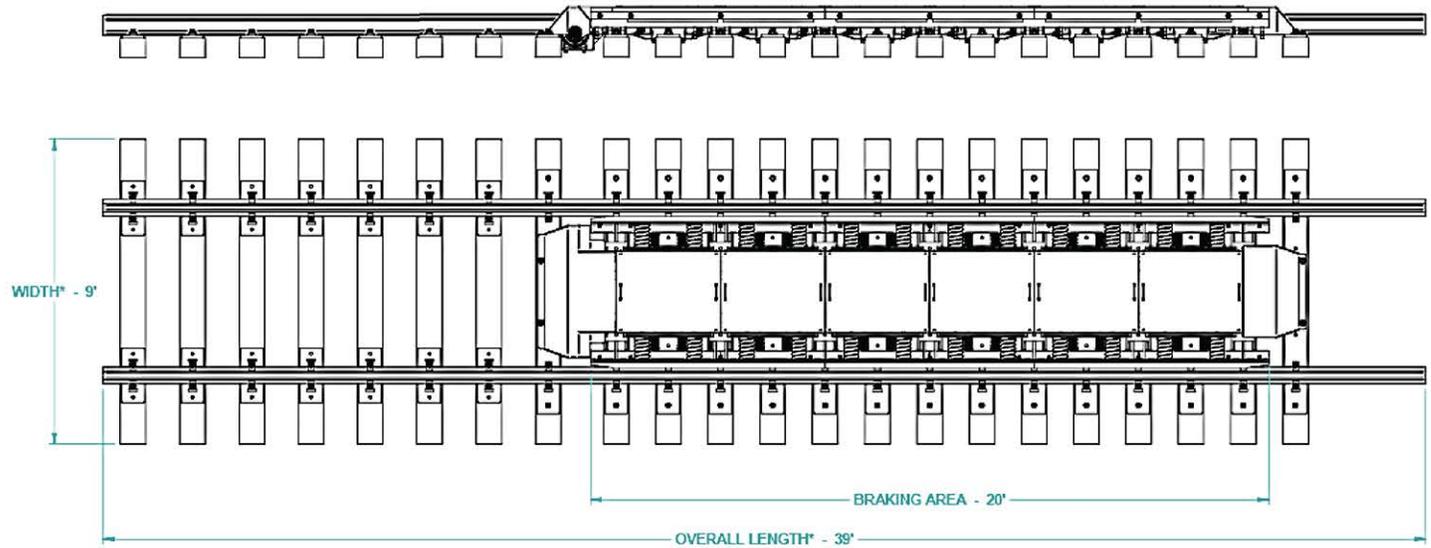


Scan the QR code to find out more about Advanced Rail Systems and the ASR-23 Skate Retarder.

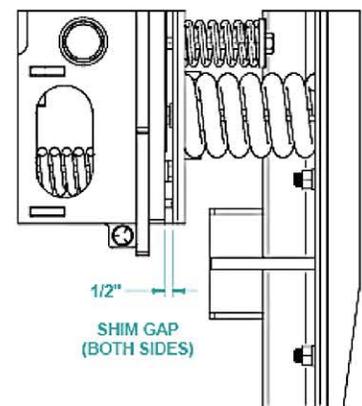
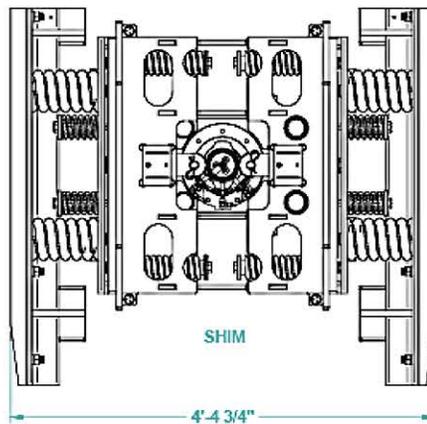
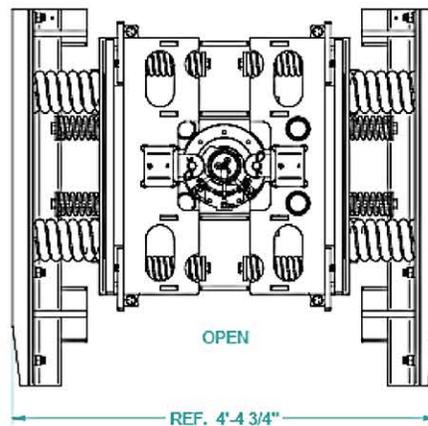
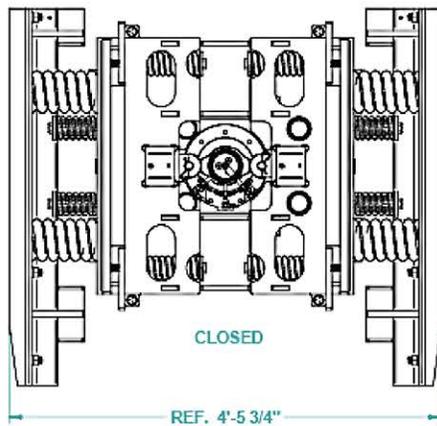
## Skate Retarder Front View



## Skate Retarder Top & Side View



## ASR-23 Cam Gear Box Positions





Advanced Rail Systems is the leading U.S.-owned and operated company dedicated exclusively to rail yard automation, offering total package solutions that redefine industry standards. Founded by experts with decades of hands-on experience — from maintaining rail lines to designing advanced automation systems — the company combines deep industry knowledge with cutting-edge innovation. Advanced Rail Systems' comprehensive approach integrates powerful, reliable switch machines and advanced automation technologies to streamline yard operations, enhance safety, and maximize efficiency. Committed to excellence in both product and service, Advanced Rail Systems delivers solutions that drive rail yards forward, setting a new benchmark for performance and support in the railway industry.

**Contact our  
Sales Team:**

**(+1) 254-252-3005**