

# YM-16

This electric hydraulic switch machine delivers durability, speed, and yard automation performance.



The YM-16 is a high-performance electric hydraulic railroad switch machine engineered for today's demanding yard and mainline environments. Known for its rugged durability, rapid operation, and intuitive design, it has become the go-to solution for rail professionals seeking reliable automation in both retrofit and new yard projects.

- Minimal Maintenance - No grease points
- Under 1.5 Second Throw Time
- Trailable up to 30 mph
- Multiple Control Methods
- Broken Rod Detection



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# YM-16 Switch Machine

- > Low-profile housing
- > Closed loop hydraulics
- > Automatic cylinder centering
- > Direct drive mechanics
- > 12VDC Compatible
- > Redundant dual spring holding force

## Physical characteristics

PARAMETER	SPECIFICATION
Length	43.5" (110.5cm)
Width	29.5" (100.3cm)
Height	8.7" (22.2cm)
Weight	595Lb (270Kg)
Throw Length	3.0" - 6.0" (76 - 152cm)
Spring Holding Force	2,000Lbf (8.9KN)

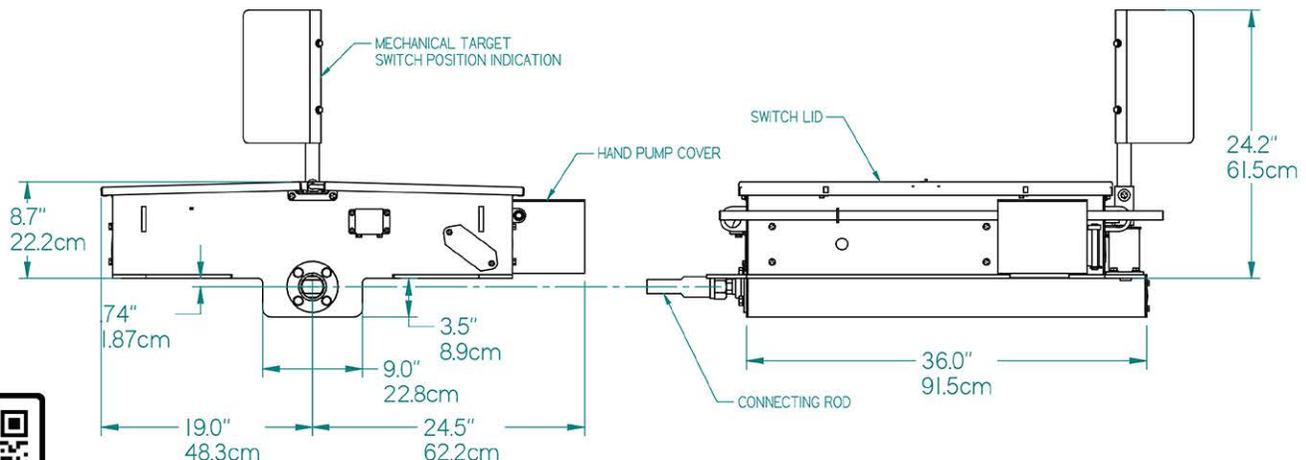
## Operating characteristics

PARAMETER	SPECIFICATION
Throw Time	1.2 Seconds
Temperature Range	-40°F + 185°F (-40°C + 85°C)
Throw Force	4,500Lbf (19.8KN)
Nominal Hydraulic Operating Pressure	1,100 psi (7.6 MPa)
Switch Control Methods	Remote: control circuits, data/network communications, or DTMF via VHF/UVF radio Local - Push Button Manual - Hydraulic hand pump

## Electrical characteristics

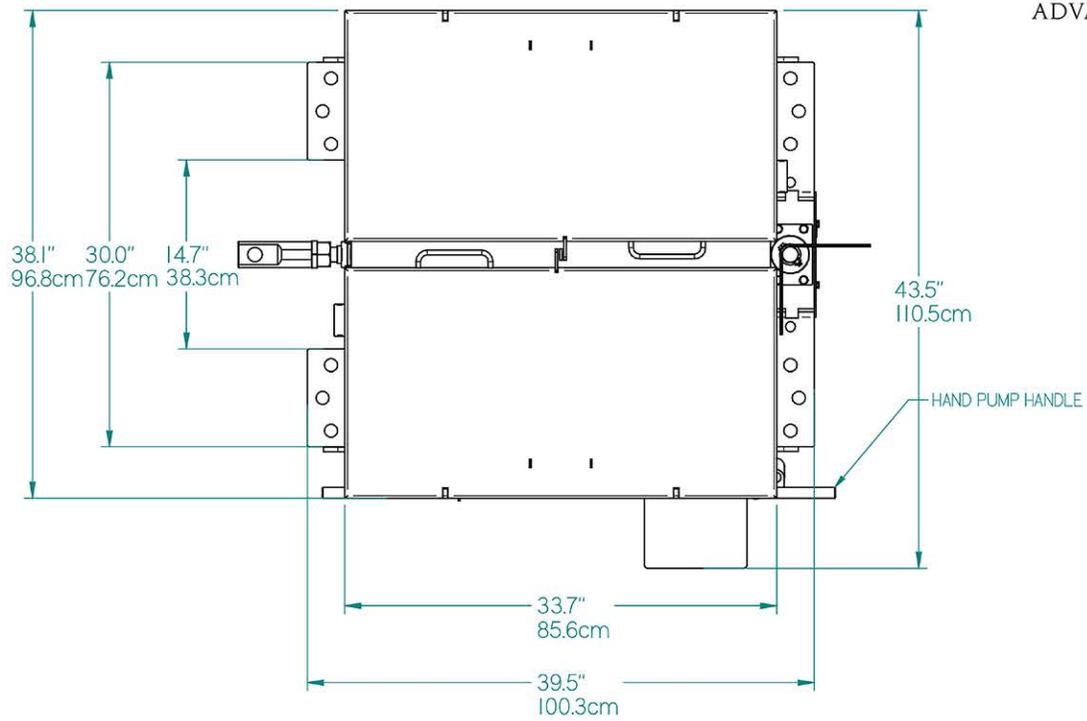
PARAMETER	SPECIFICATION
AGM Battery (heavy duty cycle)	12VDC - 105 Ah
Control Voltage	12 - 24 VDC
Power Options	Solar Panel with Battery Charger AC Battery Charger (110/220V) 115/230 AC <u>no battery</u>
Supplied Voltage and maximum current to maintain the battery charged.	110VAC - 60Hz - 2A (Battery charger) 220VAC - 60Hz - 1A (Battery charger) 230VAC - 50Hz - 1A (Battery charger) 12VDC (Solar panel control charger)
Switch Point Detection	Inductive Proximity Sensors PNP - NO - 12VDC output - 3 wires 9-30VDC - Indication Signals

## Switch Front & Side View Dimensions

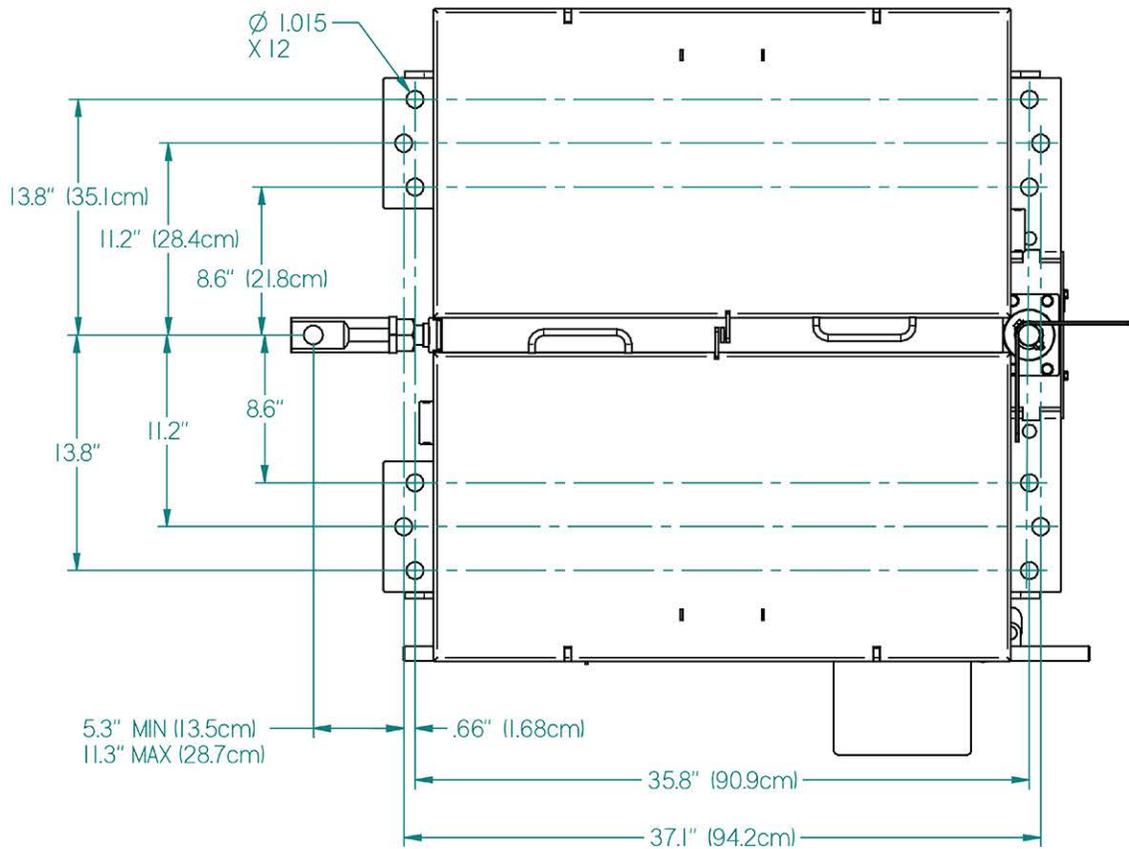


Scan the QR code to find out more about Advanced Rail Systems and the YM-16 Switch Machine.

## Switch Top View Dimensions



## Switch Foot Print Dimensions





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  
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