

HSM-17

This switch machine delivers fast, reliable, low-maintenance switching — purpose-built for high-speed hump and classification yard operations.



Engineered as a second-generation solution, the HSM-17 High-Speed Power Switch Machine delivers quick, efficient performance in demanding rail yard environments. Ideal for replacing legacy hump yard machines, it completes switch movement in just 500 milliseconds while requiring minimal maintenance. Available in **12VDC (with battery)** and **120VDC** versions, it's a flexible, high-performance solution for modern rail automation.

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



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AdvancedRailSystems.com

HSM-17 12VDC (with battery) or 120VDC

- > Low-profile housing
 - > Direct drive mechanics
- > Closed loop hydraulics
 - > 12VDC Compatible
- > Automatic cylinder centering
 - > 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)

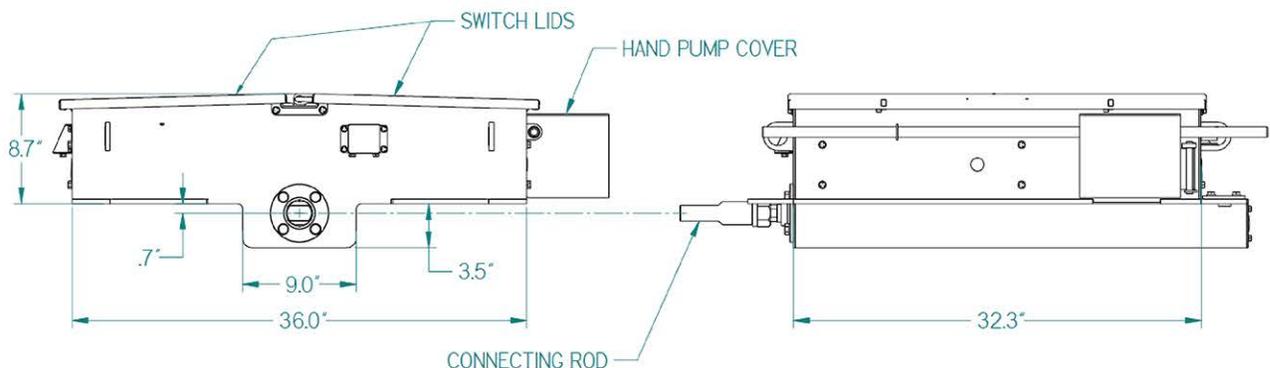
Operating characteristics

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

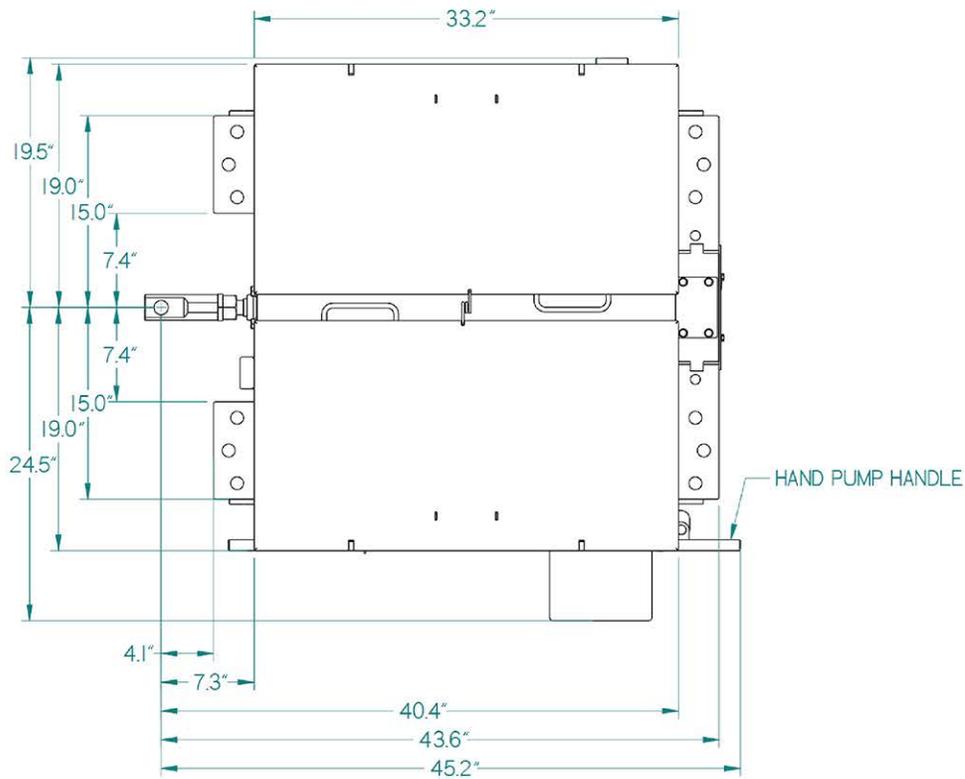
PARAMETER	SPECIFICATION
AGM Battery (heavy duty cycle)	12VDC - 105 Ah
Control Voltage	12 - 24 VDC
Power Options	Solar Panel with Battery Charger AC Battery Charger (110/220V)
Supplied Voltage and maximum current to maintain the battery charged.	110VAC - 60Hz - 2A (Battery charger) 220VAC - 60Hz - 1A (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

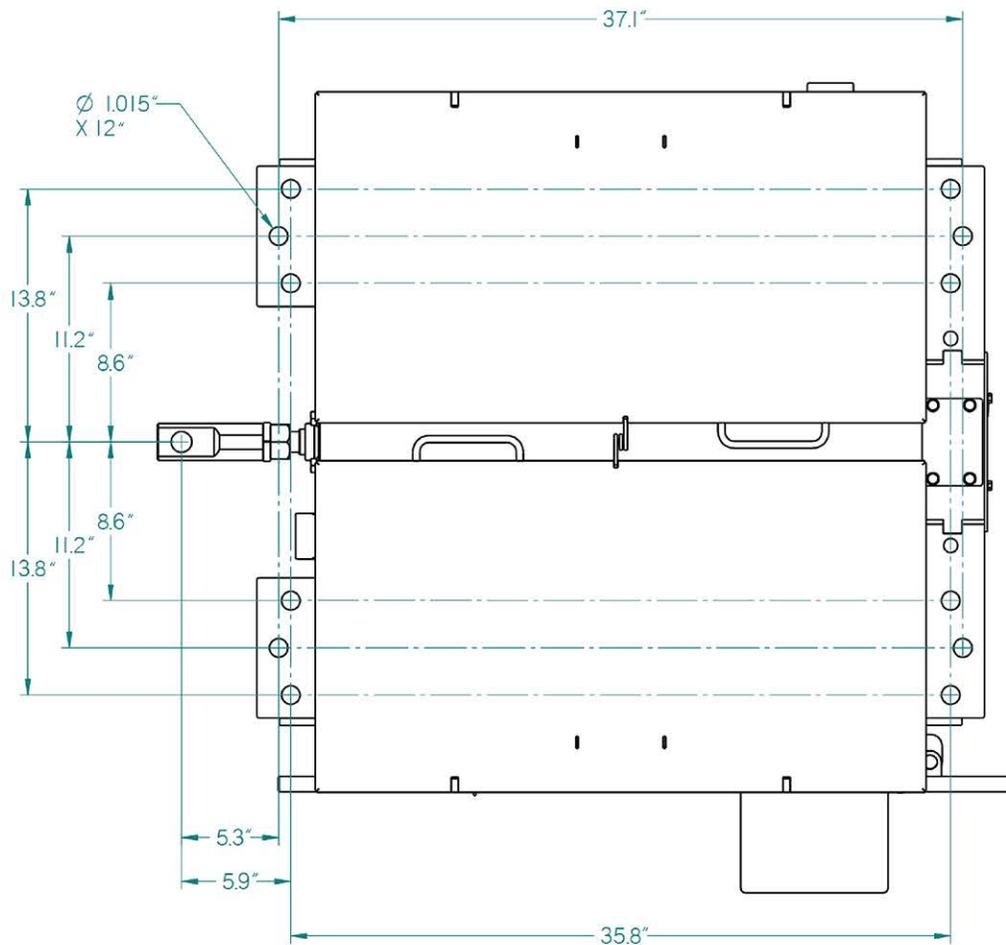


Scan the QR code to find out more about Advanced Rail Systems and the HSM-17 12VDC (with battery) or 120VDC.

Switch Top View Dimensions



Switch Foot Print Dimensions





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ADVANCED RAIL SYSTEMS

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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