DATA SHEET

Industrial ERCM – Washdown

HYDROBLAST™



Applications

- Dust Mitigation Applications
- Mining & Construction Equipment Cleaning
- Mining Chute cleaning
- Damper bin cleaning
- Reclaimer cleaning
- Conveyor belt cleaning
- Dust mitigation
- Waste treatment overflow tank cleaning
- Lumber mills
- Construction equipment washdown
- Mining vehicle washdown
- Rail cars washdown

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ELKHART BRASS

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HYDROBLAST™

The Elkhart Brass fully automated, remote-controllable and configurable HydroBlast™ monitor is designed to provide the flexibility and reliability required for automatic mining vehicles and equipment washdown, and aircraft wash.

Designed for frequent, repeated and multi-spry pattern applications, the HydroBlast is equipped with seal and bearing designs that provide ultimate protection against fine mining dust and water ingress to ensure durability. In addition, the system offers programming and configuration flexibility that enables remote control. The HydroBlast system is feature rich and offers the industry's most cost-efficient and reliable solutions in its class.



Monitor Specifications

Part Number:	02007101MG
Max Flow:	Rated up to 200-750 gpm (2900 LPM)
Max Pressure:	250 PSI (17.2 BAR)
Inlet:	2.5-inch 150# FF flange
Outlet:	DN80 table E (AS2129) FF flange
Horizontal Range of Motion:	350° options
Vertical Range of Motion:	-45° to +90° (135°)
Operating Power:	120 VAC (60 Hz)
Temp Range:	-13° F to 149°F (-25°C to 65°C)
Weight:	67 lbs. (30.391 kg)
Material:	85 Brass

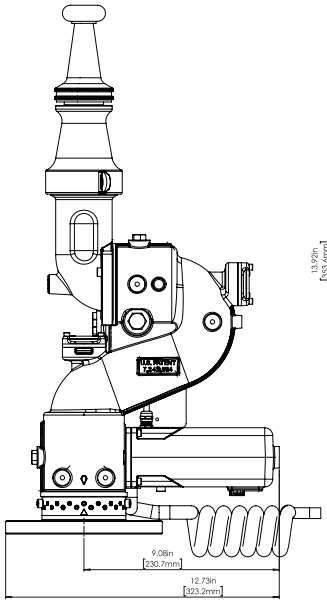
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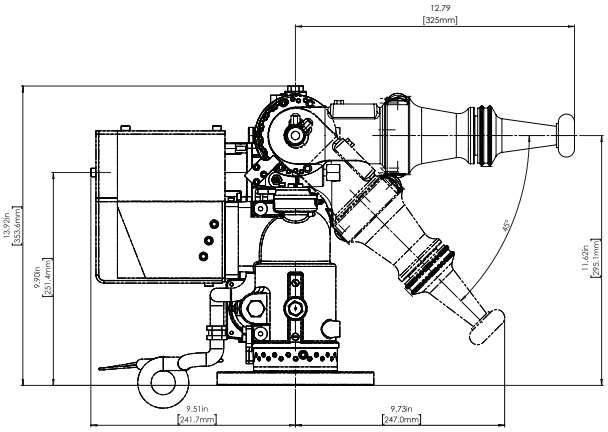
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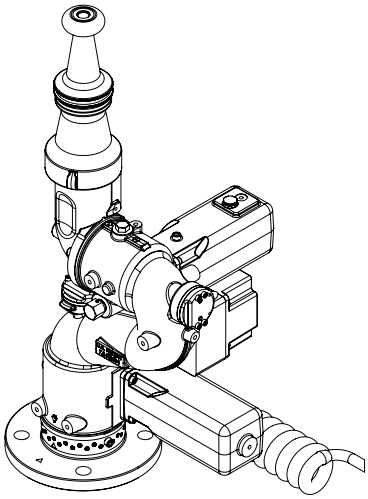
Features

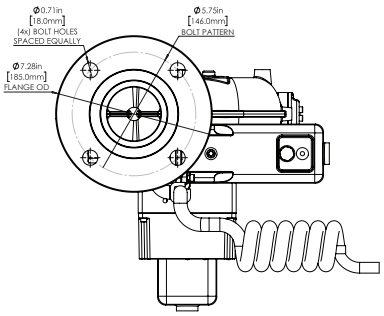
- Double race bearing and thrust bearings to ensure durability
- Patented thrust rod design
- Programmable safety stops
- Adjustable mechanical end stops with 10° limit increments
- Programmable wash recipes
- 85 brass monitor construction
- Industrial grade seals & bearings
- Absolute position feedback sensing
- IP68 ingress protection
- Military grade harnessing and connections
- Optional protective cage to ensure monitor protection against flying rocks and ore
- Heavy duty-cycle motors
- Thrust bearing design

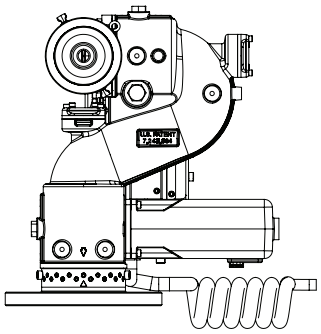
Dimensions











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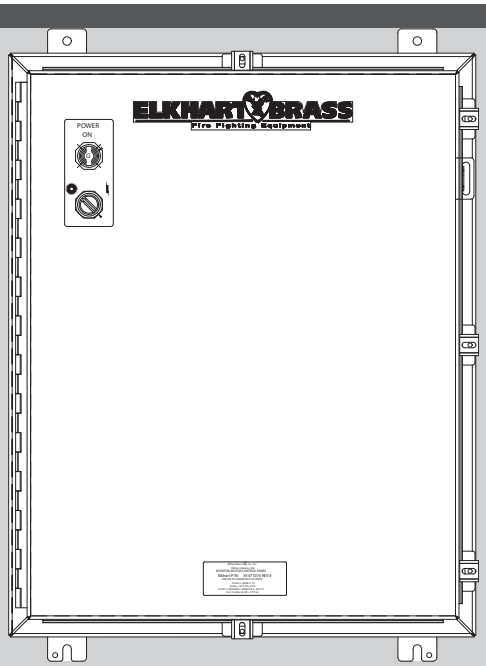
Industrial ERCM – Washdown

HYDROBLAST™

Monitor ControlPanel (MCP)

Monitor Control Panel; Factory configured for 100-240VAC 60 Hz input power, factory configurable for 50 Hz; field configurable for 120VAC or 480VAC; networkable; / Alarm Input / Group Response over ethernet network; 304 Stainless Steel NEMA 4x enclosure; UL Listed, complies with NFPA 70 (NEC).

- 316 Stainless Steel NEMA 4x Enclosure
- 5A@115VAC
- 2.5A@230VAC
- Multimode fiber optic network module and Cat5e included



Specifications

Part Number	81471142
Input Power	100-240 VAC (50 or 60Hz.)
Electrical Load:	5A@115VAC 2.5A@230VAC
Fused Output Power for Valve Operation	EB25
Dimensions	16" W x 20"H x 9.25" D
Weight	105 lbs./48 kg.
Temp Range	+14°F to +131°F -10°C to +55°C
Material	316SS

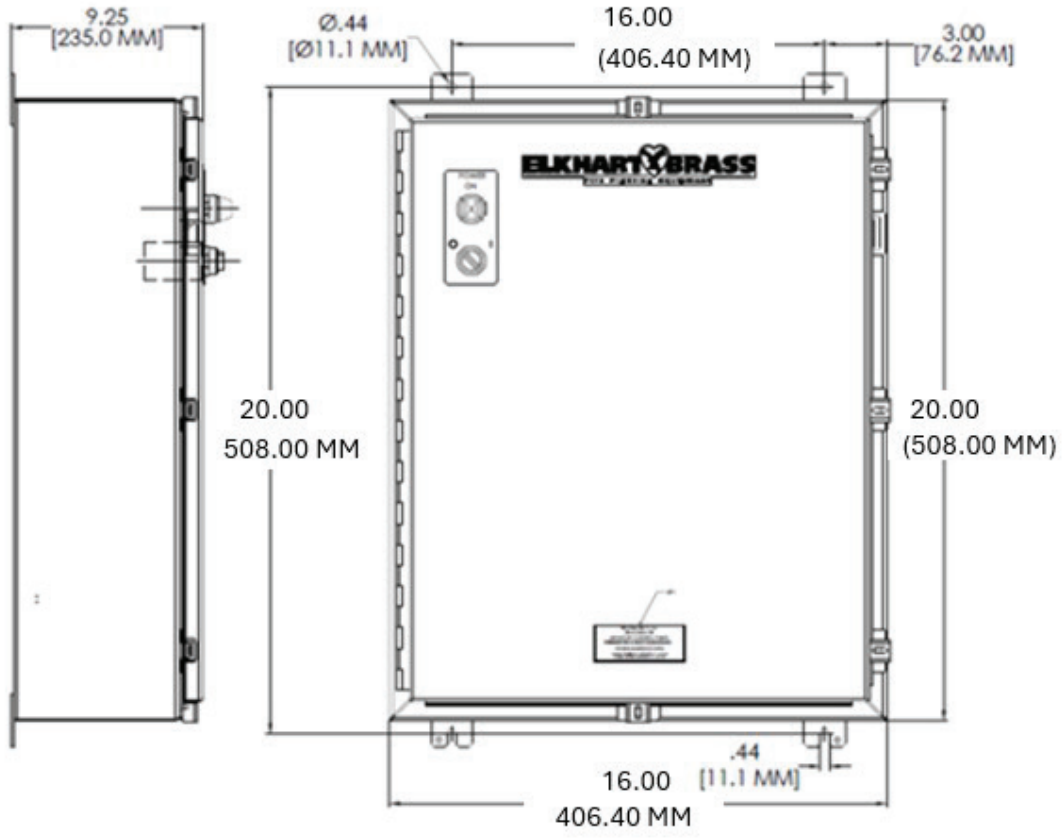
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Features

- Wiring diagram, Jumper configurations, and connections inside door
- AC/DC power supply
- Cat 5e Ethernet Cable or Multimode Fiber
- Cat 5e copper or Fiber (multimode) networking
- Up to 1.2 miles (2 km) distance between devices with multi-mode fiber
- 9-inch touch screen HMI unit
- Ethernet IP communication protocol
- Event log
- Learn wash sequence via joystick operation
- Real time troubleshooting with remote diagnostics
- Power ON/OFF switch with Power ON pilot light (red)
- (NFPA 70) NEC:2008, Article 501 compliant
- IP-66/NEMA 4X enclosure, continuous hinge with clamps
- Communication with Control Room Console via Cat 5e Ethernet Cable or Multimode Fiber
- Networkable via Internet IP
- Field programmable
- Low profile – easy to install
- Automatic activation of recipe via asset tag

Dimensions



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Control Room Console

Remote control console; 100-120VAC@2.1A input power; painted carbon steel; touch screen; supports up to 128 monitors.

- Optional wall-mount, free-standing console, or desktop
- Consolette enclosures
- Optional fiber communication connections
- Optional Ergonomic Multi Axis Joystick (free standing only)



Specifications

Part Number	24352110

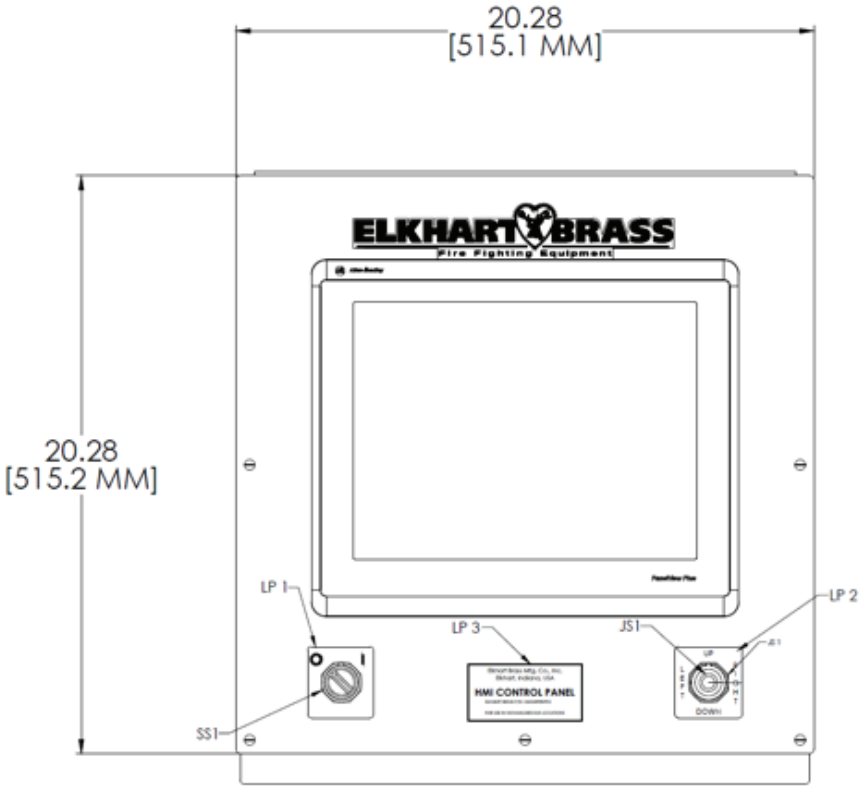
Features

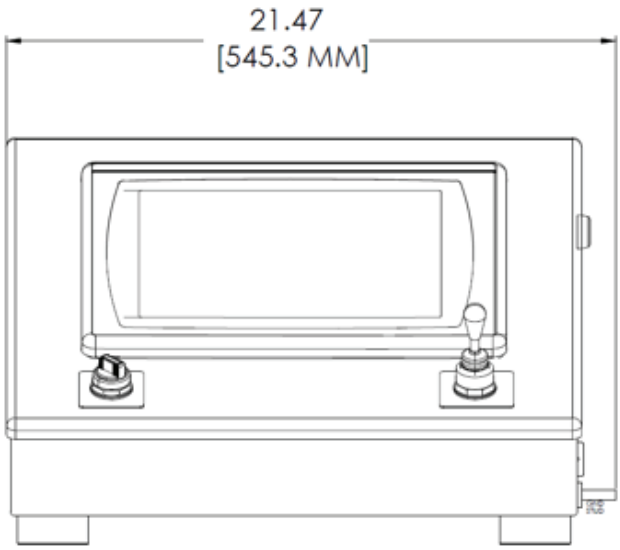
- Custom plant / facility background with virtual monitor positions
- UL508A Labeled for non-hazardous installations.
- NEMA 12 steel desktop consolette enclosure
- 120-240 VAC 60Hz (1A Max) power
- Internal AC/DC power supply
- Power ON/OFF switch
- HMI Control Screens for each monitor
- Virtual 4-way joystick for left/right and up/down
- Virtual Water valve OPEN/CLOSE pushbuttons with Open indicator (blue)
- 5510 HMI (9" Screen) Four-way joystick for up/down/ left/right.
- Two-position on/off switch
- Allen Bradley HMI and PLC for Network communication
- HMI Setup Screens for each monitor
- System alarm
- System troubleshooting
- Managerial security
- User login levels and access control
- Programmable Recipe
- Cat 5e Ethernet cable or Multimode Fiber w/ LC connectors

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Dimensions


20.28
[515.1 MM]
20.28
[515.2 MM]
ELKHART BRASS
Fire Fighting Equipment
LP 1
LP 2
LP 3
JS1
SS1
HMI CONTROL PANEL
DOWN


21.47
[545.3 MM]