



HYDROBLAST™

INNOVATION THAT CLEANS WITH SPEED AND PRECISION



Automated Remote Control Monitor System

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, aircraft wash and non-classified location fire suppression applications. Designed for frequent, repeated and multi-spray 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 HydroBlast system offers programming and configuration flexibility that enables customers to choose from utilizing the HydroBlast remote control system or using customer plant PLC control unit to control the functions of the HydroBlast system.

The HydroBlast system is feature rich and offers the industry's most cost efficient and reliable solutions in its class.

Durability

- Heavy duty cycle motors
- Thrust bearing design
- Industrial grade bearings
- Industrial grade seals
- IP68 rated monitor

Safety

- Mechanical stop limits
- Programmable stops
- Absolute positioning sensing

Configurable

- Field programmable
- Learn feature via joystick operation
- Customer defined wash sequence

Versatile

- Automatic activation of recipe via asset tag
- Local joystick control for recipe creation
- Modular expandable
- Networkable via Internet IP, Modbus TCP, CANbus, Bluetooth and Bluetooth low energy

Built to Last

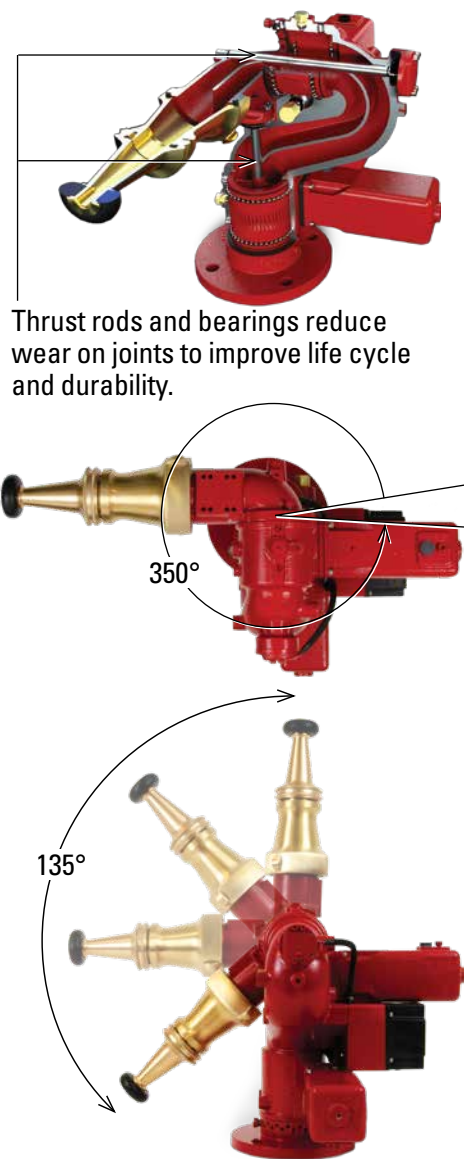
- Optional SS protective cage to protect against fast moving ore
- Corrosion resistance silicon bronze construction
- Industrial grade bearings
- Industrial grade seals
- Protective motor covers
- Protective bumper to protect nozzle against impact

Ease of Install & Service

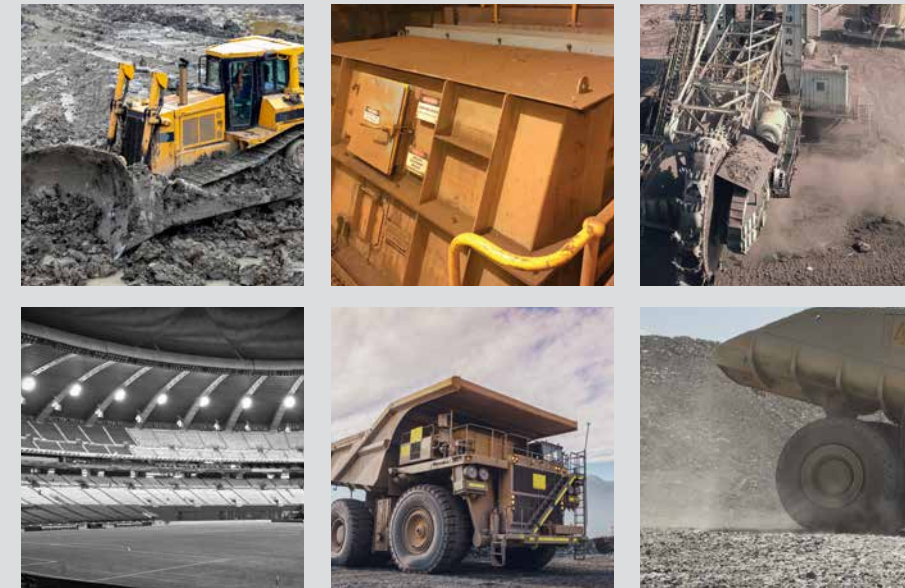
- Low profile – easy to install
- Event log
- Real time troubleshooting instructions
- Automatic event driven email notification
- Remote diagnostics

Performance

- 50-700GPM (180 to 2550 LPM) flow rate
- Max operating pressure: 250psi (17 bar)
- Oscillation range
 - Vertical Oscillation: -45° to +90°
 - Horizontal Oscillation: 350°
- Stream reach: Up to 271 ft (83m)
- 0-0.25° Positioning accuracy
- Absolute positioning feedback
- Ambient temp rating: -13°F to 149°F (-25°C to 65°C)
- Ingress protection rating: IP68



Thrust rods and bearings reduce wear on joints to improve life cycle and durability.

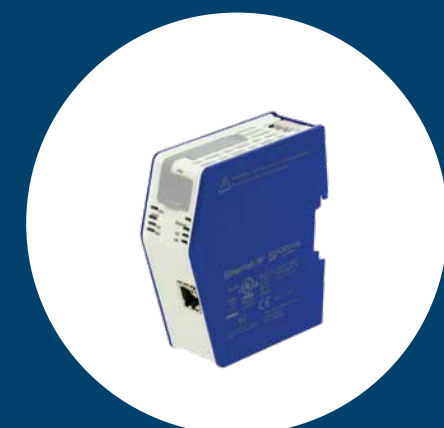


HydroBlast Monitor

Applications

Dust Mitigation Applications
Mining & Construction Equipment Cleaning
Mining Fire Protection Applications

- Chute cleaning
- Damper bin cleaning
- Reclaimer cleaning
- Conveyor belt cleaning
- Mining vehicle washdown
- Rail cars washdown
- Lumber mills
- Construction equipment washdown
- Dust mitigation
- Arena fire protection
- Stadium fire protection
- Convention center fire protection
- Waste recycling plant fire protection
- Waste treatment overflow tank cleaning



HydroBlast CAN to Ethernet IP Gateway



HydroBlast Remote Control Unit



Packages

Standard Package

- Hydroblast monitor with 12-24VDC heavy duty cycle motors and CAN to Ethernet IP gateway
- Enables remote control via end user PLC remote control/ plant PLC control system
- PLC command codes provided to enable easy configuration with end user PLC remote control/Plant PLC control system
- Mechanical and programmable stop for damage protection
- Optional protective cage to ensure monitor protection against flying rocks and ore

Premium Package

- The premium package include HydroBlast monitor with 12-24VDC heavy duty cycle motors and PLC based remote control unit
- 10-inch touch screen modular expandable remote-control unit enables control of up to 10 monitors at the same time
- Ethernet IP or Modbus TCP communication protocol
- Programmable oscillation and speed control
- Learn feature enables creation of wash recipes via joystick which can be saved and rerun with autoactivate feature
- Autoactivate feature enabling activation of saved configuration via asset tag
- Networkable with Cat 5e copper or Fiber (multimode or single mode) connectivity
- Up to 1.2 miles (2 km) distance between nodes with multi-mode fiber
- Optional joystick control



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