



ELIMINATE MANUAL BRUSH OPERATION IN EXISTING APPLICATIONS & MANUAL CLEANING ENTIRELY IN NEW APPLICATIONS

If you have manual brush-type headers, our new motor/control package offers an economical way to eliminate the need for operator intervention to rotate the brushes. Retrofitting brush-type headers is fast and easy. In less than 10 minutes, the motor can be installed on the header and the control unit mounted in a convenient location for operation. The unit can be set to clean at predetermined intervals, eliminating the need for any operator intervention. The unit can also be placed in manual mode, which enables the activation of individual brushes by an operator.

If you are experiencing nozzle plugging and haven't yet invested in brush-type headers, our Automatic Brush Header is an ideal solution. Maintenance time due to clogged nozzles can be eliminated. And, because the cleaning cycle occurs without interrupting operation, machine uptime is maximized.

BENEFITS

- Affordable, automated solution. Operator intervention is minimized or eliminated. No need to have workers climbing machines or rotating handwheels
- Suitable for use with all brush-type showers up to 3" in diameter
- Easy operation. Cleaning cycles occur automatically when used with the programmable timer. If not, activation requires a simple push of a button. The brushes wipe the nozzles and the dirty water is flushed away
- Easy installation. A brush header can be retrofitted from a manual wheel to automatic operation with just four bolts and an insert adaptor pin
- Virtually maintenance free. Aside from gear lubrication once a year, the Automatic Brush Shower requires no maintenance

Control up to four showers with a single control unit.

Options are available for controlling more Automatic

Brush Showers with a single control unit upon request —
the control panel can be integrated with the mill's central
control system via ethernet IP or used as a standalone
control panel

HIGH-PRESSURE

BRUSH SHOWER

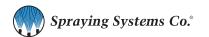
AUTOMATIC

for operating pressures up to 580 psi (40 bar)

 Controller option to add add flow meter and pressure transducer monitoring to verify machine operation.
 Sustainability and Preventive Maintenance screens included to track liquid usage and reminders for nozzles changeout.

IDEAL FOR:

- Continuous annealing and galvanizing lines
- Cooling in hot/cold annealing and pickling lines





SPECIFICATIONS

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Power supply:

480 VAC/3 phase/60 Hz

Motor speed: 1340 r/min.

Reduction ratio: 1:60

IP level: IP55

Environment temperature: $32 \sim 140^{\circ} \text{F} (0 \sim 60^{\circ} \text{C})$

Cabinet dimension: 16" W x 20" H x 8" D

 $(41 \text{ W} \times 51 \text{ H} \times 20 \text{ D cm})$

BRUSH HEADER

Max working pressure: 125 psi (8.6 bar) or 580 psi (40 bar)

Max pipe size: 3"

Max pipe length: 26 ft (7.9 m)

Frequency of cleaning range:

0.1 days - 7 days

Cleaning period: 15 seconds

Control methods: manual or automatic (timer)

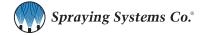
CONTROL PANEL

Included: touchscreen, power supply, circuit breaker and motor protection circuit breaker

IP level: IP54

PLC choice: Allen-Bradley™ with Ethernet IP for easy integration or Siemens®

Standard control panels available to handle either 1, 2, 3 or 4 automatic brush headers. Custom control panels are available up to 54 automatic brush headers

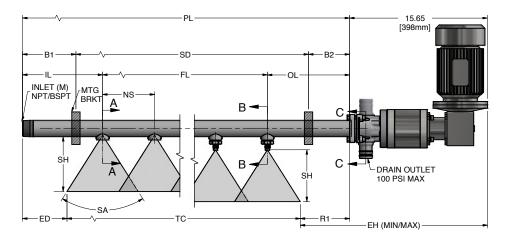


operation. It can be used as a standalone control device or

can be integrated with a central control system.

AUTOMATIC BRUSH HEADER SPECIFICATION WORKSHEET

To obtain a no obligation quotation on our new Automatic Brush Header, please review the worksheet that follows and contact your local Spray Specialist to discuss the specifications of your application.





HEADER INFORMATION

Qty. headers required: (in./mm/degrees) Pipe length (PL)*: __ Theoretical coverage (TC)*: Support distance (SD)*: Bracket inlet (B1)*: Bracket outlet (B2)*: ____ Spray height (SH)*: _____ Spray angle (SA)*: (0, 15, 30, 45, 60, or 75 degrees) Outlet angle (OA)*: _____ End to edge (ED): End to motor side (EH) - min./max.: Nozzle spacing (NS): _____ Inlet to nozzle (IL): __ Outlet to nozzle (OL):

CONTRO		

One Control Panel with ______ Brush Header* (1, 2, 3, 4 or custom)

PLC Brand ______ and Touchscreen* (Allen-Bradley™ w/ Ethernet IP or Siemens*)

Power* ____ (480VAC/3 phase/60 Hz) Only applies if integrated with oscillator

(in. or mm)

(single or double)

Qty. of nozzles: _____

PROCESS CONDITIONS

Spray coverage: ____

Oscillating stroke length*: _

Operating pressure*: _______ 125 psi (8.6 bar) or 580 psi (40 bar)

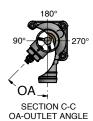
Total flow*: ______ (gpm or lpm)

Operating temperature*: ______ (°F or °C)

Liquid sprayed:



SECTION A-A STANDARD BRUSH HEADER



END VIEW

Defaults Minimums IL: 4.0" (101.6 mm) IL: 4.0" (101.6 mm) Pressure: SA: 60° 40 psi (2.8 bar) Inlet: (M) NPT Pipe size: 1-1/2" Spray overlap: 1 NS: 2.0" (50.8 mm) OA: 0 (zero) Materials: 316LSS Temp. $< 100 F (38^{\circ}C)$ Power Reg'd: 480VAC/3ph/60Hz Control Panel Mat'l: Painted Steel Control Method: Auto Timer & Manual

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(*Reauired)



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