



Mining - Rail - Power - Construction

The New Approach to Belt Cleaning

New South Wales based Motive Traction Pty Ltd in conjunction with a major Mining Companies, Development Team have recently upgraded Motives HPLV Conveyor Belt HPLV Conveyor Belt Cleaners. The HPLV (High Pressure, Low Volume) conveyor Belt Cleaners are a high end belt cleaner utilizing High Pressure and Low Volumes of Water to clean the belt surfaces.

Instead of using blades or brushes to scrape the product off the belt, The **Motive Traction H.P.L.V. Belt Cleaner** uses a series of high pressure, low volume water jets connected to a spray bar to clean the return run of the belt.

By keeping the amount of water used very low and directing the cleaning discharges back into the product flow, the systems operates without any product spillage or build up, with the added advantage that the small amount of water introduced into the product stream acts as a dust suppressant.

The control unit (incorporating water holding tank) is generally located upon the ground underneath the Conveyor or on the conveyor platform.

The recently developed model, named "Samson" has a number of new features recommended by the Joint Development Team. The development team tested a Standard HPLV over a 12 month period and the team included personnel from areas such as Maintenance, Electrical, Engineering, Environmental Control, Occupational Health & Safety, Finance and Design.

Some of the features of the new "Samson" HPLV are:-

- Continuity of size:
 - One size fits all
- Easier Accessibility to the Motor/Pump
- Heavy Duty Skid Base
- Duplicate By-Pass Filter
 - Saves downtime during filter cleaning or replacement.
 - Stainless Steel Filter Strainers with 80 on 20 Mesh.
- Flow Meter
 - Sends a signal back to the PLC to confirm the pump is running and delivering water to the Spray Bar.
 - Keep's records of Water Flow and Water Use using Totalizers.
 - Touch Pad Control installed inside unit.
 - Shuts the unit down when no or minimal water flow is detected.
- System Overpressure Switch:
 - The Switch is to shut down the pump before exceeding maximum pressure thus protecting the pump from exceeding the design limits.

Head Office (Australia):

2738 Booral Road,
Booral NSW 2425,
Australia.
Ph + 61 2 4994 9192.
Fax + 61 2 4994 9331
Email: nsw@motive-traction.com.au

India Liaison/Rep Office:

Flat 206 "Raheja Nest"
2/22, A S Salai 1st Lane
Royepettah, Chennai 600014
India
Ph + 91 44 28114479
Email: india@motive-traction.com.au

China Office:

Room602, D/5 Chaoyang Longzuo,
No.1178 Chaoyang North Road,
Baoding City, Hebei China
Ph + 86 312 3114118
Fax + 86 312 3125882
Email: china@motive-traction.com.au

Distributors:

- Iran
- Kazakhstan & Central Asia
- South Africa
- Uruguay
- Zimbabwe



Mining - Rail - Power - Construction

- All maintainable equipment and instrumentation within the HPLV is readily accessible from the front of the enclosure
- The enclosure is Cyclone rated and suitable for outdoor service:
 - Has a sloped roof (min 30 degree pitch) with overhang over the main access point to divert spillage and dust.
- Louvered panels provided in the door and/or sides:
 - Provides adequate ventilation for the motor.
- Plug & Play System
- All Electricals to mine-site Specifications
- All Piping is 316 Stainless Steel
- Certified Lifting Lugs added
- Power Supply 3 Phase, 415v, 50 Hz, plus earth
- Control Voltage is 24V DC

Motive Traction's Samson HPLV utilizes Flow Sensors and Flow Meters from Siemens; complete with Modbus. High Pressure Pumps from Speck in Germany, Mine Spec Motors from Teco and Gates/Hydraulink Hoses and Fittings.

The Motive Traction HPLV Samson is now being installed at three of our development partner's new and existing conveying facilities in Western Australia; interest from other sites is heavy and is expected to produce many HPLV Samson installations in the near future. At time of writing this article Motive Traction had 44 HPLV Sampson Belt Cleaners on order or under manufacture in their New South Wales manufacturing facility.

For further information or a presentation of the HPLV Samson Belt Cleaner, please contact Motive Traction Pty Ltd on + 61 2 4994 9999 (International) or 02 4994 9999 (Australia)

Motive Traction Pty Ltd
2738 Booral Road
Booral NSW 2425
Australia.

Email nsw@motive-traction.com.au

Web www.motive-traction.com.au

Head Office (Australia):

2738 Booral Road,
Booral NSW 2425,
Australia.
Ph + 61 2 4994 9192.
Fax + 61 2 4994 9331
Email: nsw@motive-traction.com.au

India Liaison/Rep Office:

Flat 206 "Raheja Nest"
2/22, A S Salai 1st Lane
Royapettah, Chennai 600014
India
Ph + 91 44 28114479
Email: india@motive-traction.com.au

China Office:

Room602, D/5 Chaoyang Longzuo,
No.1178 Chaoyang North Road,
Baoding City, Hebei China
Ph + 86 312 3114118
Fax + 86 312 3125882
Email: china@motive-traction.com.au

Distributors:

- Iran
- Kazakhstan & Central Asia
- South Africa
- Uruguay
- Zimbabwe