

3&5Gallon 200BPH Semi auto washer Details and Specifications



BMI-4R Co.,Ltd.

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Semi Auto 200bph

Definition

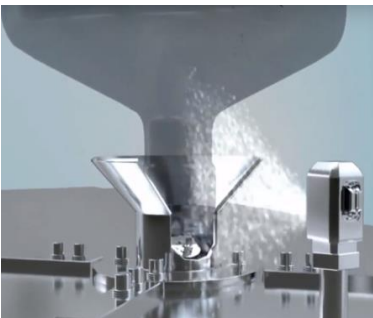
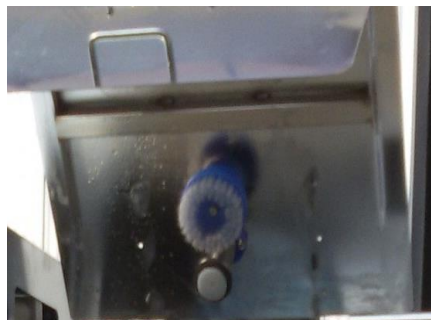
This Machine is designed to place the bottle by semi-manual bottles in and out only. And, automatically the bottles start rotating and nozzles up and down. The nozzles are moved up and down in the bottle, and spraying rinsing water at a high pressure of 80bar. Generally, PC bottle is easily contaminated with green algae and scale. And, also, sometime it's contaminated with edible oil which is difficult to wash with existing washing machine. Our High Pressure Washing Machine can remove those of all contaminations up to 99.9%. Washing Capacity is 200bph for 2 side washing per once. It can be possible to wash the external of bottle as an option..

Specification

1. Air - 5Kg / cm²
2. Using 2 Ways High Pressure Jet Nozzles up and down
3. Washing Time : 12 sec / Bottle(Adjustable)
4. Washing Capacity : 200 bottles per hour(BPH)capacities
5. Tank Storage : 20L
6. Motor Output : 10HP
7. Pump Output : 80BAR ~
8. Voltage : 380V - 450V / 220V, 50 / 60Hz
9. All stainless steel construction(S.S. 304)by argon welding
10. Semi-Automatic bottles loading and unloading



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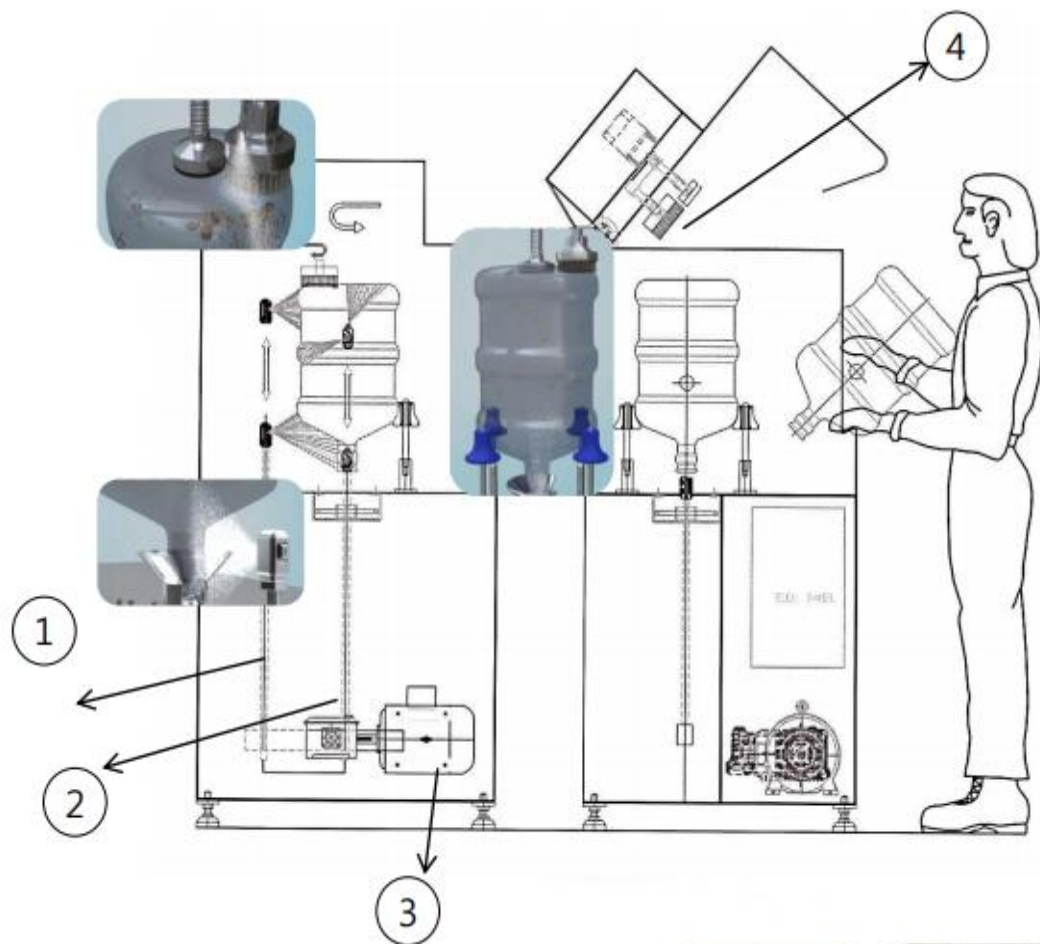
Testing Videos Link

<https://www.youtube.com/watch?v=f93fW11CFPA>
<https://www.youtube.com/watch?v=YyDA97iu0Cg>
<https://www.youtube.com/watch?v=JhhUdk-HufQ>
<https://www.youtube.com/watch?v=Rubtz5y5JIQ>
https://www.youtube.com/watch?v=5-h7_SJ14Kc
<https://www.youtube.com/watch?v=-56aEdwjBzQ>
<https://www.youtube.com/watch?v=L097ltF64gM>
<https://www.youtube.com/watch?v=JhhUdk-HufQ>



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Lay out



1. Bottle outside washing nozzle
2. Bottle inside washing nozzle
3. High Pressure pump
4. Bottle outside washing brush



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High Pressure Washing Tested by Nestle Korea
(72 hours dried Mud remove test)

Bottled Washer Validation - Hadong Factory					
Trial no. 1		VALIDATION RESULTS		Test Date: 2009-05-18	
Trial Description: 5 Gallons Round Bottles after Only High Pressure Washing					
Washer Line speed:		20 bpm			
Bottle Contact Time:		9 sec			
Washer Pressure:		70 kg.f/cm ²			
Result Entry Area					
Values in Grams					
Botle No.	Empty Dry Wt. Bottle	Dry Wt. Bottle + Soil (Post 72 hrs drying)	Dry Wt. of Soil (Post 72 hrs drying period)	Dry Wt. of bottle after Washing (72 hrs)	Wt. Of the Soil Removed
1	785.7	1019.5	233.8	792.6	226.9
2	793.4	1026.9	233.5	802.7	224.2
3	771.1	999.7	228.6	776.7	223.0
4	794.0	1027.2	233.2	801.3	225.9
5	780.8	1013.2	232.4	787.2	226.0
6	792.0	1024.1	232.1	797.4	226.7
7	793.4	1020.9	227.5	805.7	215.2
8	787.1	1017.9	230.8	796.3	221.6
9	794.9	1027.4	232.5	800.1	227.3
10	784.9	1010.7	225.8	794.5	216.2
11	793.4	1022.9	229.5	799.5	223.4
12	791.4	1023.2	231.8	800.5	222.7
13	797.8	1027.3	229.5	806.5	220.8
14	809.1	1040.6	231.5	814.9	225.7
15	775.5	1006.5	231.0	788.1	218.4
16	792.7	1023.9	231.2	800.1	223.8
Avg	789.83	1,020.74	230.92	797.76	222.99
			Average Weight Removed		222.99
			High (Max) Value (Wt. Removed)		227.30
			Low (Min) Value (Wt. Removed)		215.20
			Standard Deviation (Wt. Removed)		3.74
Calculation- % Removal of Standard Soil					
Botle Size	Avg Wt. Of Soil Removed (gram)	Dry Wt. Of Soil post 72 hrs Drying Period (gram)-Avg	% Removed (Results)	Required Standard	Remarks
5 Gallon	222.99	230.92	96.57%	≥ 83.9 %	Cleaning Successful
Bottle Washer Validation Results - Trial # 1					
1. Removal of standard soil (average) is lesser than required standard i.e. 96.57% removed than the req. standard of ≥ 83.9%. 2. Removal of average of 222.99 grams of standard soil against the minimum required removal of 209.7 grams. 3. 12.1 grams difference found between the high (227.3grams) and low (215.2grams) removal values against requirement of < 75 grams as plant run at max speed of 20 bpm.					
Cleaning Success Measurement					
1. Approved Cleaner and Sanitizer used. 2. 130 to 160 degrees F (54 to 71 degree C) operational temperatures. 3. Removal of greater than or equal to 83.9% (based on formula above) of Standard Soil. 4. Must remove a minimum average (from all samples tested) of 209.7 grams of Standard Soil for 5 gallon bottles or 126 grams for 3 gallon bottles. (the more the better) 5. < 50 grams difference between high and low removal values (if run at a mid to slow speed) 6. < 75 grams difference between high and low removal values (if run at high or max speed)					



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