



## IBC Washing Line – RJ-IW-Auto

### Features

- Fully Modular Design
- Repeatable Cleaning Quality
- High Throughput Rates
- Internal and External Wash
- Automatic Leak Detection

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### IBC Washing Line – RJ-IW-Auto

The RJ-IW-Auto is a fully modular system and, as such, is fully adaptable to your individual cleaning requirements. In normal applications a full reconditioning line consists of five stages: external wash, internal wash, rinse, leak detection and drying

These continuous IBC washers ensure a repeatable cleaning quality and thanks to their intuitive design and control parameters they can be operated with little training or technical knowledge.

Below is a typical example of how our modular systems are implemented:



**Fig. 1:** RJ-IW-Auto – IBC Reconditioning Line




### RJ-IWE - External Wash

The RJ-IWE is an external washing station that allows for the rapid cleaning of IBCs. The IBC is simply rolled onto the washing platform allowing the container to be rotated 360°.

Using a 2.8kW pump water is delivered to the outside of the IBC at 120 BAR by an external pressure washer hose. This process can be made more efficient by requesting the water be heated and recirculated, available as an optional extra

This stage removes all external labels and stubborn stains is particularly important for reconditioning companies where without this crucial step the IBCs would not be suitable for resale.



<b>Pressure</b>	120 BAR
<b>Flow Rate</b>	11L/min
<b>Power</b>	2.8 kW


### RJ-IW/1 - Internal Wash

The RJ-IW/1 is a high pressure internal washer that strips contaminants from the inside of the IBC. Typically an RJ-IW/1 is used for both internal wash and rinse.

During the wash stage either uses caustic solution or aqueous detergents depending on the typical contaminants present. To ensure complete coverage an electric driven, high pressure nozzle is used. The nozzle is fitted with pencil jets which rotate 360° on both the X and Y axis, delivered at 180 BAR with a flow rate of 11L/min.

The machines can either wash with heated wash liquor or ambient liquor for the IBC or Tote cleaning operation. Usually, the ambient solution is used for water-based residues, and heated caustic liquor for non-water based residues

To reduce operating costs, as an optional extra, it is possible to add a 500L recirculating tank, allowing the wash solution to be filtered and reused.



<b>Pressure</b>	180 BAR
<b>Flow Rate</b>	11L/ min
<b>Power</b>	2.9kW
<b>Test Time</b>	2 min
<b>Test Pressure</b>	5 min

### RJ-IW/1 - Internal Rinse

The RJ-IW/1 is implemented as a rinsing stage after the internal wash has been completed to remove any remaining wash liquor from the container with fresh water.

To ensure complete coverage an electric driven high pressure nozzle is used. The nozzle is fitted with pencil jets which rotate 360° on both the X and Y axis, delivered at 180 BAR with a flow rate of 11L/min.

When used as a rinsing stage fresh water is used at ambient temperature as standard however options are available to increase its efficiency if required. Heated fresh water or ionised water can be used to drastically increase its efficiency.

To reduce operating costs, as an optional extra, it is possible to add a 500L recirculating tank, allowing the wash solution to be filtered and reused.



<b>Pressure</b>	180 BAR
<b>Flow Rate</b>	11L/ min
<b>Power</b>	2.9kW
<b>Min Cycle Time</b>	2 min
<b>Max Cycle Time</b>	5 min

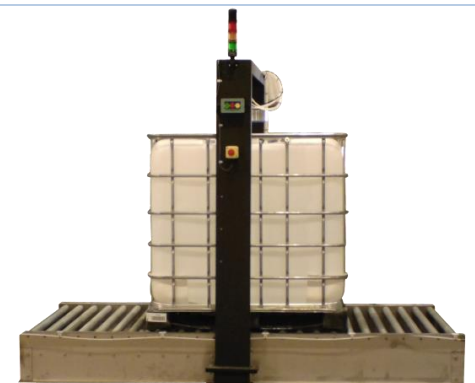
### RJ-IPT – Pressure Tester

The RJ- IPT is a single head leak tester for testing IBCs & Totes. It is a manually loaded tester, mounted on a carbon steel frame.

Test sequence can be initiated from either a “start” button, or by “another” device such as photocell, limit switch or external control system depending on your requirements. The system will automatically perform the leak test. The result of the leak test is then displayed on the operator control panel. To increase the efficiency of your process a traffic light system can be installed to provide a quick reference on each containers’ status after each test.

To ensure accurate data logging all tests are automatically stored with a time stamp on a removable USB stick, found in the operator panel.

This unit also features a “self test” facility which introduces a leak of a known size into a good container to allow the hole finding capability of the tester to be periodically tested.



<b>Fill Delay</b>	3.0 Seconds
<b>Fill Time</b>	30 Seconds
<b>Settle Time</b>	5 Seconds
<b>Test Time</b>	90 Seconds
<b>Test Pressure</b>	30mB
<b>Safe Pressure</b>	10mB
<b>Min Final Pressure</b>	85.0%

### Internal Drying – RJ-DIBC/1

The Rotajet RJ DIBC/1 is fitted with a high volume air blower which is lowered by the operator into the container with a pneumatic cylinder. The drying cycle is started and a high volume blower transfers air into the container.

To increase energy efficiency the expelled air is channelled into a heat exchanger chamber and reused. This recirculation allows the system to rapidly heat the air too 130°C, which dries the IBC or Tote in approximately 5-6 minutes.

To increase the overall throughput of the RJ-IW-Auto a second drying stage may be included. This additional stage increases the throughput rate by a factor of 2.

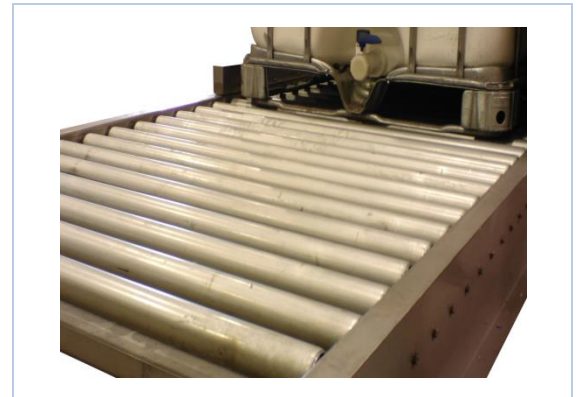


<b>Power</b>	3.7kW
<b>Operating Temp.</b>	130°C
<b>Air Volume</b>	200-900L/min
<b>Pressure</b>	1kPa

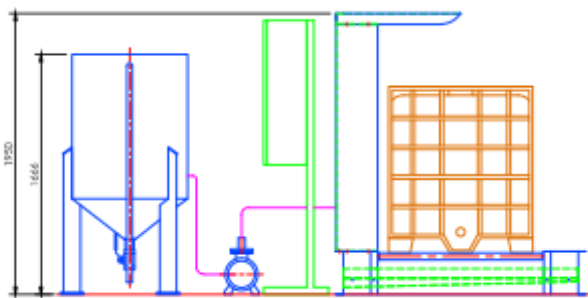
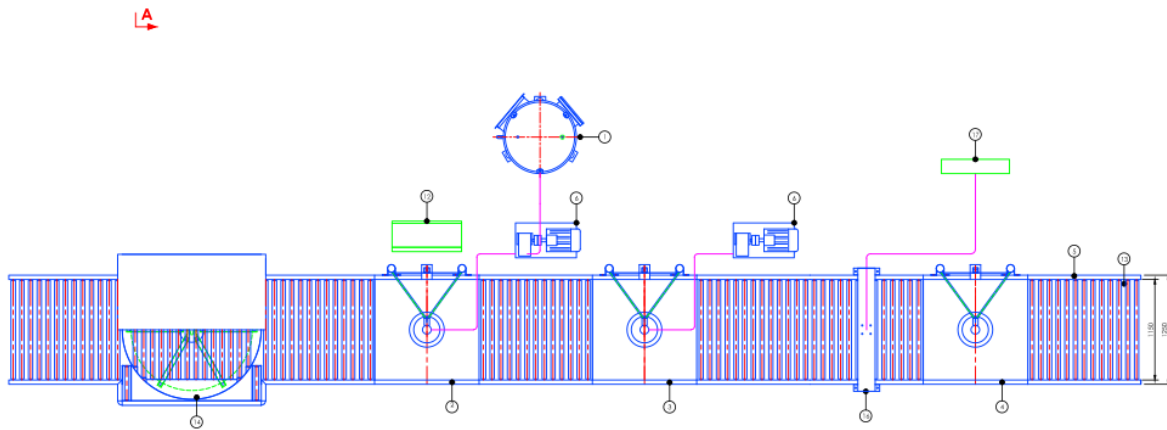
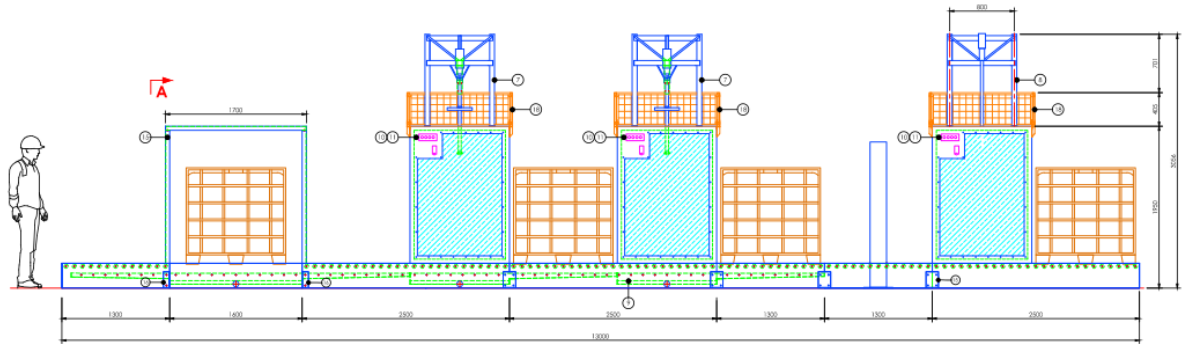
### IBC Transfer – RJ – IRT1

The RJ-IRT1 is a single IBC to be manually transferred between stations. Each transfer system can be fitted with a stainless steel drip tray and polypropylene rollers.

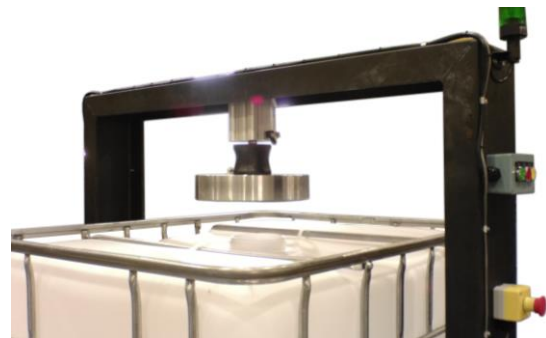
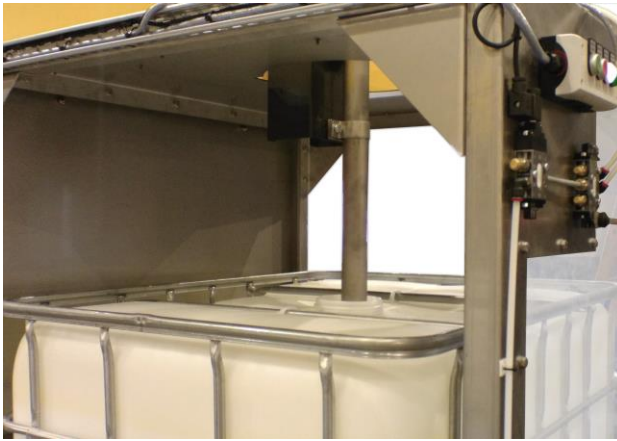
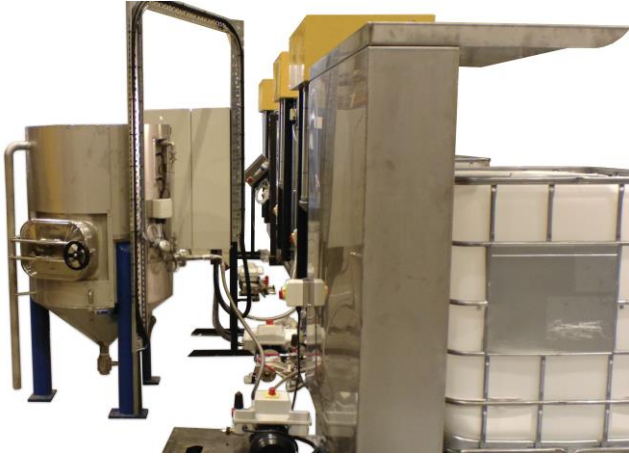
Structural steel will be manufactured from stainless steel.







PARTS LIST				
Item	Description	Material	Qty	Ref. Drg.
1	Hot Water Storage Tank - 500 Litre Capacity	Stainless Steel 304L	1	DA 3409
	Storage Tank Level Switch	RFS - 12P - SUS304	3	
	Storage Tank Temperature Probe	PFL 3PA SA60100A	1	
	Z' BSP - 50 DN Ball Valve ( Tank Drain )	-	1	
2	Wash Booth	Stainless Steel 304L	2	DA 3422
3	Rinse Booth	Stainless Steel 304L	1	DA 3422
4	Dryer Booth	Stainless Steel 304L	1	DA 3422
5	Roller Track	Stainless Steel 304L	1	DA 3429
6	MP1140 Pump	BS EN 10025 S275	2	
	Pump Outlet Pipework to Spray Arm	-	2	
7	Spray Arm Assembly	Stainless Steel 304L	2	DA 3424
8	Dryer Arm Assembly	Stainless Steel 304L	1	DA 3425
9	Drip Tray	Stainless Steel 304L	1	DA 3414
10	Cylinder Operating Handle Type CM - 9423P		3	
11	Electrical Control Box	Mild Steel	3	
12	Control Panel - 1000 x 800 x 300 ( On Stand )	Stainless Steel	1	
13	Ø50 Galvanised Roller x 1144 O/B with Ø10 Spindle x 1180 Long	-	114	
14	Turntable	Stainless Steel 304L	1	DA 3434
15	Label Remove Booth	Stainless Steel 304L	1	DA 3428
16	Pressure Test	Mild Steel	1	DA 3433
17	Pressure Test Control Panel ( On Stand )		1	
18	Guard	Mild Steel	3	DA 3423



### Our Products Range

- Plastic Washers
- Plastic Dryers
- Sink Float Tanks
- Granulators
- Shredders
- Feed Hoppers

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