Parts Washing Systems

PARTS WASHING SYSTEMS
**OUR REFERENCES**

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**Dear Customer:**

Our company would like to offer all advantages of working with an expert to you as having a 25 years of solid experience in the ‘Industrial Parts Washer and Washing Systems’ manufacturing sector.

Our company acquired International ISO 9001:2008 Quality Management System Certification and CE Certification which means we have both nationally and internationally recognized quality systems. Our company has always been dedicated to deliver the best products to you with the highest quality materials, the proven designs and the premium workmanship.

Our entire technical and strategic staff is always at your service for delivering the most improved products to you.
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</table>
The washing process is executed in a sealed cabinet, automatically without requiring manual labor. During this process, the 2 to 5 % alkaline water solution in the washer’s tank is pumped by an electro stainless steel bodied pump to interact thoroughly with the entire surfaces of the contaminated part, via specially located spraying nozzles.

While the mounted washing basket is rotated around its own axis by a powerful motor, the washing effect is enhanced by tri-axial spraying i.e. from bottom, top and lateral planes.

Especially;

• By technical services, industrial parts manufacturers for washing engine blocks, vehicle components, gearboxes or the gears individually.

Standard Features

• AISI-304 Stainless Steel Main Body
• AISI 304 K Stainless Steel Tank
• AISI-304 Stainless Steel Pump
• Electrical Resistance Heater
• Mechanically Driven Washer Basket
• Temperature Controller
• Timer
• Tank Level Protection
• Cover With Double Dampers
• Dual Filtration
• Cover With Mechanical Lock
• Automatic Washing Cycle
• Emergency Stop Button

Optional Features

• Oil Scraper (Disc Type)
• Digital Indicator
• Precision Filtration
• Dryer
• Acidic Washing Application
• Vapor Exhaust Unit

TECHNICAL SPECIFICATIONS

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STAINLESS STEEL BODY
WASHING WITHOUT MANUAL LABOR
STAINLESS STEEL PUMP
AUTOMATIC TIMER
AUTOMATIC TEMPERATURE CONTROL
COMPLETE FILTRATION
EASY LOADING

» At automotive workshops,
» At heavy vehicle workshops,
» At maintenance units of factories,
» At industrial parts manufacturers,
TURN TABLE PARTS WASHERS

P Y M 2

Standard Features
• AISI-304 Stainless Steel Main Body
• AISI 304 K Stainless Steel Tank
• AISI-304 Stainless Steel Electro-Pump
• Electrical Resistance Heater
• Mechanically Driven Washer Basket
• Basket Positioner
• Temperature Controller
• Timer
• Transport Trolley
• Tank Level Protection
• Cover With Double Dampers
• Dual Filtration
• Cover With Mechanical Lock
• Automatic Washing Cycle
• Emergency Stop Button

Optional Features
• Oil Scraper (Disc Type)
• Automatic Tank Discharge Unit
• Digital Indicator
• Precision Filtration
• Dryer

WORKING PRINCIPLE

The washing process is executed in a sealed cabinet, automatically without requiring manual labor. During this process, the 2 to 5% alkaline water solution in the washer’s tank is pumped by an electro stainless steel bodied pump to interact thoroughly with the entire surfaces of the contaminated part, via specially located spraying nozzles.

While the mounted washing basket is rotated around its own axis by a powerful motor, the washing effect is enhanced by tri-axial spraying i.e. from bottom, top and lateral planes.

UTILIZATION FIELDS

• This type machines are utilized for cleaning the parts from protective oil, grease, chips and particles.

Especially;
• By technical services, industrial parts manufacturers for washing engine blocks, vehicle components, gearboxes or the gears individually.

» At automotive workshops,
» At heavy vehicle workshops,
» At maintenance units of factories,
» At industrial parts manufacturers,
### TECHNICAL SPECIFICATIONS

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TECHNICAL SPECIFICATIONS

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WORKING PRINCIPLE

The washing process is executed in a sealed cabinet, automatically without requiring manual labor. During this process, the 2 to 5% alkaline water solution in the washer’s tank is pumped by an electro stainless steel bodied pump to interact thoroughly with the entire surfaces of the contaminated part, via specially located spraying nozzles.

While the mounted washing basket is rotated around its own axis by a powerful motor, the washing effect is enhanced by tri-axial spraying i.e. from bottom, top and lateral planes. This model of our company is especially preferred for washing taller parts and when it is desired to reinforce the washing quality by way of an additional intermediate washing process.

UTILIZATION FIELDS

It is particularly used in the working environments which require washing quality in compliance with ISO 4406 standards such as hydraulic systems.

- Automotive Industry,
- Hydraulics Industry,
- Defence Industry,
- Metal Industry

Standard Features
- AISI-304 Stainless Steel Main Body
- AISI -304K Stainless Steel Tank
- AISI-304 Stainless Steel Electro-Pump
- Electrical Resistance Heater
- Mechanically Driven Washer Basket
- Basket Positioner
- Temperature Controller
- Timer
- Transport Trolley
- Tank Level Protection
- Infrared Hand Protection
- Cover With Double Dampers
- Dual Filtration
- Cover With Pneumatic Piston
- Automatic Washing Cycle
- Emergency Stop Button

Optional Features
- Oil Scraper (Disc Type)
- Automatic Tank Discharge Unit
- Digital Indicator
- Precision Filtration
- Dryer
- Acidic Washing Application
- Vapor Exhaust Unit
- Automatic Tank Filling

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## TECHNICAL SPECIFICATIONS

### TURN TABLE PARTS WASHERS

#### WORKING PRINCIPLE

The washing process is executed in a sealed cabinet, automatically without requiring manual labor. During this process, the 2 to 5% alkaline water solution in the washer’s tank is pumped by an electro stainless steel bodied pump to interact thoroughly with the entire surfaces of the contaminated part, via specially located spraying nozzles. While the mounted washing basket is rotated around its own axis by a powerful motor, the washing effect is enhanced by tri-axial spraying i.e. from bottom, top and lateral planes.

At this model machines of our company, the rinsing and the drying stages are also executed in the same cabinet following the washing. It is quite easy to define all of the desired washing parameters via PLC controller in accordance with the requested processes. The system will complete the entire washing process in compliance with the defined parameters automatically without requiring any manual labor.

#### TECHNICAL SPECIFICATIONS

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<thead>
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<td>85</td>
<td>85</td>
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<td>28</td>
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#### Standard Features

- AISI-304 Stainless Steel Main Body
- AISI-304K Stainless Steel Tank
- AISI-304 Stainless Steel Electro-Pump
- Electrical Resistance Heater
- Mechanically Driven Washer Basket
- PLC Controller
- Basket Positioner
- Temperature Controller
- Timer
- Oil Scraper (Disc Type)
- Transport Trolley
- Tank Level Protection
- Infrared Hand Protection
- Cover With Double Dampers
- Dual Filtration
- Cover With Pneumatic Piston
- Emergency Stop Button
- Vapor Exhaust Unit

#### Optional Features

- Chemical Dosing
- Automatic Tank Discharge Unit
- Tank Cleaning Manhol
- Precision Filtration
- Acidic Washing Application
- Automatic Tank Filling
INDUSTRIAL SCROLL WASHING MACHINES

VDL 1B

WORKING PRINCIPLE

The parts are fed via entrance hatch in to the helical spiral which is beared on the lateral axis and then the parts are moved to the exit of the machine by the spirals at the same time they are washed with the aqueous alkali solution sprayed through the in-built nozzles within the cabinet.

Each surface of the part will be washed as it is being swirling while moving through the drum. At this model, the parts require to be dried following the washing. The companies will achieve the maximum cost-efficiency for the expenses in order to accomplish the desired cleaning level by implementing this type of washing processes.

UTILIZATION FIELDS

• “They are especially used for the cleaning, the deburring and the deoiling processes of the small dimensioned and bulk amounted parts which are impossible to lay out over the baskets.”

• “They are utilized at the cleaning processes in the Automotive industry for the connection parts such as bolts, nuts and nipples; in the Coating industry for all sorts of small parts prior to coating; in the Hydraulics industry for the union and the fitting parts; in the Metal industry for the CNC milled automat and armature parts.

Standard Features
• AISI-304 Stainless Steel Main Body
• AISI 304 K Stainless Steel Tank
• AISI-304 Stainless Steel Electro-Pump
• Electrical Resistance Heater
• Mechanically Driven Washer Drum
• Heat Insulation For Tank
• Tank Level Protection
• Dual Filtration
• Automatic Washing Cycle
• Emergency Stop Button
• Digital Indicator
• Dryer
• Temperature Controller

Optional Features
• Oil Scraper (Disc Type)
• Automatic Tank Discharge Unit
• Automatic Parts Loading
• Precision Filtration
• Acidic Washing Application
• Vapor Exhaust Unit
• Automatic Tank Filling

TECHNICAL SPECIFICATIONS

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<td>Total Power</td>
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INDUSTRIAL SCROLL WASHING MACHINES

WORKING PRINCIPLE

The parts are fed via entrance hatch in to the helical spiral which is beared on the lateral axis and then the parts are moved to the exit of the machine by the spirals at the same time they are washed with the aqueous alkali solution sprayed through the in-built nozzles within the cabinet.

Each surface of the part will be washed as it is being swirling while moving through the drum. At this model, the parts require to be rinsed and dried following the washing. The companies will achieve the maximum cost-efficiency for the expenses in order to accomplish the desired cleaning level by implementing this type of washing processes.

UTILIZATION FIELDS

- “They are especially used for the cleaning, the deburring and the deoiling processes of the small dimensioned and bulk amounted parts which are impossible to lay out over the baskets.
- “They are utilized at the cleaning processes in the Automotive industry for the connection parts such as bolts, nuts and nipples; in the Coating industry for all sorts of small parts prior to coating; in the Hydraulics industry for the union and the fitting parts; in the Metal industry for the CNC milled automat and armature parts.

TECHNICAL SPECIFICATIONS

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</tr>
<tr>
<td>Electrical Power</td>
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<tr>
<td>Total Power</td>
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Standard Features
- AISI-304 Stainless Steel Main Body
- AISI 304 K Stainless Steel Tank
- AISI-304 Stainless Steel Electro-Pump
- Electrical Resistance Heater
- Mechanically Driven Washer Drum
- Heat Insulation For Tank
- Tank Level Protection
- Dual Filtration
- Automatic Washing Cycle
- Emergency Stop Button
- Digital Indicator
- Dryer
- Adjustable Drum Speed
- Temperature Controller

Optional Features
- Oil Scraper (Disc Type)
- Automatic Tank Discharge Unit
- Automatic Parts Loading
- Precision Filtration
- Acidic Washing Application
- Vapor Exhaust Unit
- Automatic Tank Filling
ROTARY BASKET PARTS WASHERS

R T S 1B

WORKING PRINCIPLE

This machine enables to execute the washing, the rinsing, the passivation, and the drying processes of bulk produced parts in a single chamber prior to packaging or montage. In general, the batches of the parts, which are to be pushed in to the machine through the feeding hatch manually or pneumatically, are placed in the baskets flowing on the conveyor that is located in front of the machine. The cover is closed automatically and the basket which is locked to the drum inside the chamber rotates while the washing, rinsing, passivation, and drying stages are to be carried out. The drying is executed by hot air or vacuum systems alternatively. It is also possible to improve the washing quality further by adding optional ultrasonic units. This model offers the maximum cleaning levels because it employs both the spraying and the dipping washing techniques over the parts.

UTILIZATION FIELDS

This machine is utilized for the deburring and the deoiling of the parts which have complex concave surfaces and constructions hence the spraying technique alone fails to offer adequate cleaning and to access thoroughly in to the complicated geometries.

It is utilized in:

• Automotive Industry,
• Food Industry,
• Metal Working Industry
• Optical Instruments Industry
• Medical Instruments Industry
• Textile Industry

Standard Features
• AISI-304 Stainless Steel Main Body
• AISI-304 K Stainless Steel Tank
• AISI-304 K Stainless Steel Electro-Pump
• Electrical Resistance Heater
• PLS Controller Unit
• Tank Level Protection
• Dual Filtration

Optional Features
• Automatic Washing Cycle
• Emergency Stop Button
• Dryer
• Adjustable Drum Speed
• Oil Scraper (Disc Type)
• Vapor Exhaust Unit
• Heat Insulation For Tank

Automatic Tank Discharge Unit
• Automatic Parts Loading
• Acidic Washing Application
• Automatic Tank Filling
• Precision Filtration
## TECHNICAL SPECIFICATIONS

<table>
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<tr>
<th>Machine Model</th>
<th>RTS 234-1B</th>
<th>RTS 234-2B</th>
<th>RTS 345-1B</th>
<th>RTS 345-2B</th>
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<td><strong>mm</strong></td>
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<td>2000<em>2250</em>1750</td>
<td>1600<em>1700</em>1850</td>
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<td><strong>V-Hz</strong></td>
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<td><strong>Total Power</strong></td>
<td><strong>kw</strong></td>
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<td>19</td>
<td>12</td>
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</table>
ULTRASONIC PARTS WASHERS

WORKING PRINCIPLE

The sandwich type transducers which are placed at the bottom of the tank induce cavitation by vibrating 40,000 times per minute. The parts are immersed in the liquid medium as being placed in the baskets or hanged on the racks would be cleaned thoroughly within seconds without sustaining any damage upon them. The operation cycle is controlled by the timer mounted on the machine. The bath temperature is adjustable as required within the range of the thermostat.

The Multi-Staged Parts Washers Facilitates The Below Mentioned Compartments:

1. Pre-Washing With Turbulance: It is applied on the extremely dirty, oily and chipped parts via pre-washing with pressurized hot liquid. By this way, the service life of the ultrasonic bath would be prolonged.

2. Ultrasonic Washing: The parts, free of coarse contaminants, are cleaned thoroughly by ultrasonic effect.

3. Rinsing: The residuals of the chemical agents over the parts after leaving the washing stations would be completely removed at this station.

4. Drying: The left over liquid will be dried away at this station by applying pressurized hot air.

Upon request it is possible to integrate automatic water filling, automatic chemical dosing, oil separator, chips separator, extra filtration, and deionized water units as optional accessories to the related tanks. Suitable for demanding working conditions.

UTILIZATION FIELDS

This machine is utilized for the deburring and the deoiling of the parts which have complex concave surfaces hence the spraying technique fails to access thoroughly in to the complicated geometries.

It is utilized in:
- Automotive Industry,
- Food Industry,
- Metal Working Industry
- Optical Instruments Industry
- Medical Instruments Industry
- Textile Industry
- Electronics Industry
- Coating Industry
CONVEYOR BELT TUNNEL PARTS WASHERS

The parts, which will be processed through the conveyor belt tunnel parts washers, are placed in front of the entrance station in order to be conveyed through the washing, the rust removal, the rinsing, the phosphatizing, the passivation (protection against corrosion), the drying etc. stations respectively, without any manual operation for reaching the exit station.

The conveyor belt, which is designed exclusively in compliance with the parts to be processed, is made of 304 or 316 grade stainless steel and has excellent workload capacity. The speed of the conveyor is adjustable within a wide range via digital speed controllers. The circulation system is equipped with internationally recognized, corrosion-free pumps.

Heating system can be designed as electrical, heat exchanger or burner type upon request. The boilers and the upper section of the body is insulated for heat economy. Our PLC controlled systems enables to control the entire facility by using the operator panel. We deliver the safety measures such as automatic water filling and liquid level monitoring on each of our machines as standard.

UTILIZATION FIELDS

This type of machines are utilized to clean the parts and their surfaces which are bulk produced with high volumes at shorter time frames from oil, chips or to clean the surfaces prior to painting in general.

It is utilized in:
- Automotive Industry,
- Coating Industry,
- Defence Industry,
- Electronics Industry,
- Food Industry,
- Metal Working Industry

WORKING PRINCIPLE

Stainless steel body, stainless steel pump, temperature controller, precision filtration, vapor exhaust unit, speed controller, emergency stop button, heat insulation.

STANDARD FEATURES

The parts, which will be processed through the conveyor belt tunnel parts washers, are placed in front of the entrance station in order to be conveyed through the washing, the rust removal, the rinsing, the phosphatizing, the passivation (protection against corrosion), the drying etc. stations respectively, without any manual operation for reaching the exit station.

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