

CYCLOJET

Aqueous-Based Jet Cleaners



INEX-PLUS SERIES



CONVEYORIZED/
TUNNEL CLEANERS



HEAVY-DUTY (LD) SERIES



INEX SERIES



MANU-CLEANERS

Standard & Customized Cleaning Equipment
using Spray Jet Cleaning Technology

CYCLOJET CLEANERS

Spray Jet Cleaning Technology



Main Objective:

In these environmentally-conscious times, aqueous-based parts washers are one of the fastest and practical ways to clean mechanical parts/ components efficiently while meeting all the strict local and international environmental regulations.

Cyclosystem's range of standard and customized **CYCLOJET** Cleaning Machines are specially designed and developed to meet this challenge - using spray jet cleaning technology to clean metal parts. **CYCLOJET** Cleaning Machines are normally used for pre-cleaning, general cleaning and final cleaning of small machined components in the manufacturing industry, as well as other sophisticated mechanical components and large parts in the general servicing, maintenance and overhaul industries.

CYCLOJET's range of industrial spray cleaning machines are grouped under the following basic product categories:



MANU-CLEANERS

the most competitive range of small parts cleaners.



INEX SERIES

the "workhorse" for automatic cleaning of small parts.



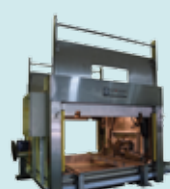
INEX-PLUS SERIES

the combination of spray jet & immersion cleaning technologies.



HEAVY-DUTY "LD" SERIES

for automatic cleaning of large & heavy parts.



CONVEYORIZED/ TUNNEL CLEANERS

for continuous cleaning of production parts.



CYCLOHEAT

standard and customized industrial drying ovens.



CYCLOCLEAN

environmentally-friendly cleaning agents & detergents.



CYCLOTREAT

compact waste water treatment plant.

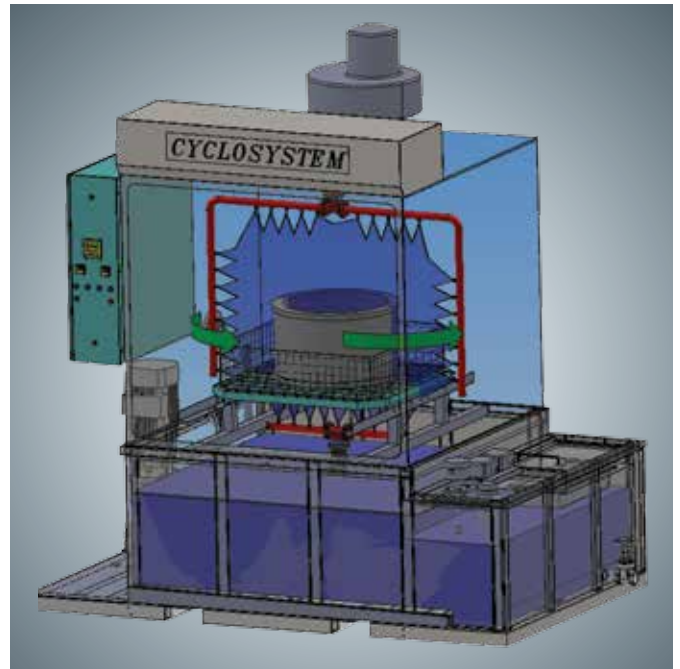
CUSTOMIZED CLEANERS

tailored-design for other customized cleaning needs.

Our Design Philosophies:

Our range of **CYCLOJET** Cleaning Machines, regardless of whether they are standard serial production unit or customized type, are all produced with the following basic design philosophies :

- Simple and reliable using industry-proven technology
- Aesthetically pleasant and user-friendly
- Use of eco-friendly cleaning agents with 100% water recycling
- Compact and modular design with options for many "add-ons"
- Automatic and high cleaning efficiency
- Use of high quality materials and standard components
- Energy efficient and low cost operation
- Easy maintenance and servicing



Industrial Applications:

CYCLOJET Cleaners can be widely applied to many industrial cleaning needs and some of the industries which have utilized a lot of our cleaners include :

- Aerospace & Military
- Electronics & PCB Productions
- Manufacturing
- Marine & Offshore
- Metal Stamping & Precision Machining
- Railway & Automotive
- Semicon & Wafer Fabrication

CYCLOJET is fully designed and manufactured by **CYCLOSYSTEM PTE LTD** – a BULOX Corporation company and also one of the leaders in the design and development of industrial cleaning machines worldwide employing different types of cleaning technologies.

All **CYCLOJET** Cleaners are fully warranted by Cyclosystem Pte Ltd and/or its officially appointed overseas Agents or Distributors.



CYCLOJET MANU-CLEANERS

The **Cyclojet Manu-Cleaner** is a very simple, competitively-priced, compact and robust cleaning equipment that is easy-to-use and easy-to-maintain. The Cyclojet Manu-Cleaner, as the name implies, is a manually-operated jet spray top-loading cabinet cleaner with a handy flow-through-brush, which can be used for cleaning those hard to reach parts that require a little extra scrubbing.



Key Features:

- Comes in **Small, Medium and Large** sizes
- Corrosion resistance EG Plates @ powder-coated construction
- Wide open and spacious wash basin
- Full basin hinged cover with mechanical stopper latches
- Nylon mat to prevent washparts from contacting directly on steel wash basin
- Flow-through-brush for scrub washing
- Air-operated pump for higher efficiency
- Large & easy access reservoir tank
- Large strainers for trapping loosened parts
- Filter bags for collection of wash contaminants
- Full flow drain valves
- Mobile castor wheels with stoppers
- Integrated control panel
- Air filter-regulator unit
- Full instruction O&M Manuals



Options:

- Stainless steel construction instead of EG plates construction
- Electric-operated pumps instead of Air-operated pumps
- LED viewing lights to illuminate washing process
- Air blow dry gun attachment

Benefits/Advantages:

- Low cost investment
- Simple and reliable
- Rugged and superior quality
- Low energy consumption
- Low maintenance cost
- Single point utility connection

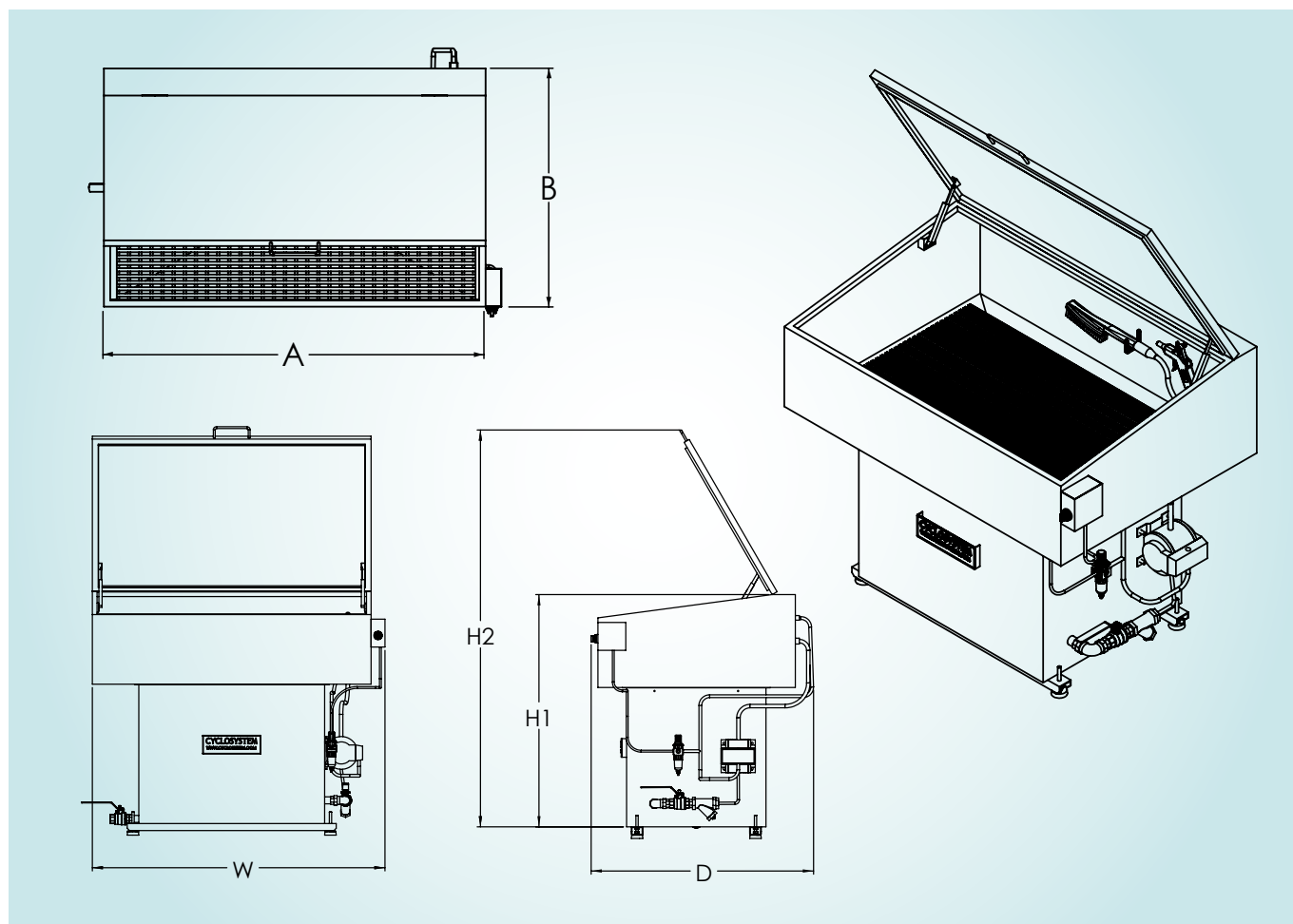


Industrial Applications:

- Automotive Service Centre
- Maintenance & Service Workshop
- Railway Depot
- Other Industrial Workshop

CYCLOJET MANU-CLEANERS

(Small/Medium/Large)



Technical Specifications

S/N	DESCRIPTIONS	SMALL	MEDIUM	LARGE
1.0	MODEL NO.	CM-7045	CM-9065	CM-12075
2.0	Wash Basin Size (A x B) ^A	700 x 450 mm ^A	900 x 650 mm ^A	1200 x 750 mm ^A
3.0	Overall Width (W)	750 mm	950 mm	1250 mm
4.0	Overall Depth (D)	500 mm	700 mm	800 mm
5.0	Overall Height (H1)	1100 mm	1150 mm	1200 mm
6.0	Open Height (H2)	1400 mm	1600 mm	1800 mm
7.0	Maximum Loading	15 Kg	30 Kg	45 Kg
8.0	Reservoir Tank Capacity	60 L	120 L	200 L
9.0	Pump Flowrate	15 ~ 20 Lpm	15 ~ 20 Lpm	15 ~ 20 Lpm
10.	Pump Pressure	1.2 ~ 2.0 Bar	1.2 ~ 2.0 Bar	1.2 ~ 2.0 Bar
11.	Air Supply	4.0 ~ 6.0 Kgf	4.0 ~ 6.0 Kgf	4.0 ~ 6.0 Kgf
12.	Electric Supply ^B	230V/ 1-Ph/ 50 Hz ^B	230V/ 1-Ph/ 50 Hz ^B	230V/ 1-Ph/ 50 Hz ^B

Machine specifications are subject to change without prior notice.

NOTE: ^A All other sizes can be offered as an option.

^B All other electrical power supply can be offered as an option.

CYCLOJET INEX SERIES



The **Cyclojet INEX Series** is probably one of the simplest and most popular ranges of automatic Spray Jet Cleaning Machines in the industry. As the names implies, the "INEX" series is an "INEXpensive" range of Jet Spray Cleaners - specially designed and developed for serial production and cater to the mass market to clean small parts automatically. It is possibly the answer to the general industrial cleaning needs as washing machines are highly common for most household nowadays.

The **Cyclojet INEX Cleaner** is a top-loading fully enclosed cabinet cleaner that uses high pressure spray jet nozzles to clean the washparts automatically. The Cleaner is ergonomically and compactly designed to fit and blend into every possible modern workshop space. It comes in three standard sizes and is modularly designed to include many options which can transform the basic machine into a sophisticated workhorse. Washparts are placed inside a stainless steel stationary wash basket while high pressure self-propelled spray jets are rotated to clean the washparts in all possible directions automatically. The wash solution is automatically filtered and recycled in the equipment itself, and heavy sludge and grease can be removed out of the Cleaner automatically.

Key Features:

- Comes in **Small, Medium** and **Large** sizes
- Top loading with fully automatic operation
- Industry-proven design and a workhorse to many satisfied clients
- High cleaning efficiency and reliability
- Aesthetically and ergonomically designed
- Full stainless steel construction on all wetted parts
- Self-propelled high pressure integrated spray jets
- Water-based cleaning with 100% automatic filtering and recycling
- Rugged and modularly constructed with many options for "Add-Ons"
- Electric heating with microprocessor-based digital temperature control
- Stainless steel wash basket, coarse particles' strainers and piping system
- Multi-stage high pressure wash pump with adjustment & monitoring
- Large reservoir tank with full access for servicing and drainage valve
- Viewing window with LED lighting and laminated glasses
- Heavy-duty base skid with mobile castor wheels & brake system
- Stainless steel top cover with gas-spring or pneumatic actuators-assisted opening & closing, and push handle bar
- Comprehensive electro-mechanical safety interlock system
- Integrated stainless steel PLC-based HMI main control panel



Options:

- **Exhaust Fan** – for automatic extraction of hot steam out of the wash chamber before the opening of top cover as a safety precaution.
- **Oil-Skimmer Assembly** – for automatic removal of floating waste oil out of the reservoir tank to prolong the bath life.
- **Manual Spray Gun** – for manual cleaning of washparts using a separate pump and control system.
- **Manual Blow Dry Gun** – for manual blow drying of washparts using factory CDA supply.
- **Small Parts Basket** – for containment of small parts during the washing process to prevent them from “flying” around in the wash chamber.
- **Fine Particles Filters** – for entrapping fine particles during the washing process using filter bags system with stainless filter housing and pressure gauge monitoring.



Benefits/Advantages:

- Simple, compact and reliable
- Industry-proven design
- High cleaning efficiency
- Water-based cleaning using environmentally-friendly detergent
- Automatic filtering and recycling
- Low cost investment & operation
- Easy maintenance and servicing
- Optimizing operator's productivity
- Powerful to clean almost any mechanical parts
- Can be configured from simple to a sophisticated cleaning machine



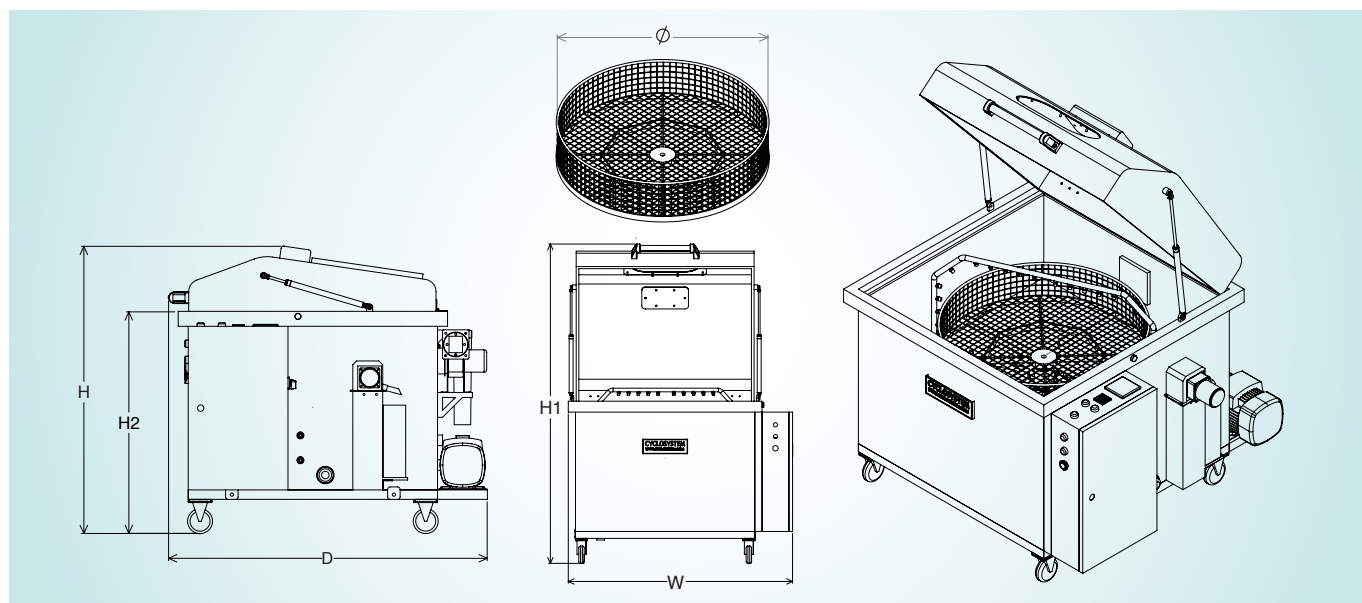
Industrial Applications:

- Aerospace
- Automotive
- Engines & Turbines Overhaul
- Maintenance Workshop
- Manufacturing
- Metal Forming
- Metal Machining
- Printing
- Railway Depot
- Shipyard



CYCLOJET INEX SERIES

(Small/Medium/Large)



Technical Specifications

S/N	DESCRIPTIONS	SMALL	MEDIUM	LARGE
1.0	MODEL NO.	CJ-600S	CJ-800S	CJ-1000S
2.0	Washbasket			
2.1	Maximum Diameter (Ø) ^A	600 mm ^A	800 mm ^A	1000 mm ^A
2.2	Wash Height Clearance	450 mm	450 mm	450 mm
2.3	Maximum Load Capacity	50 Kg	75 Kg	100 Kg
3.0	Principal Dimensions			
3.1	Overall Width (W)	1050 mm	1250 mm	1450 mm
3.2	Overall Depth (D)	1050 mm	1250 mm	1450 mm
3.3	Overall Height (H)	1100 mm	1200 mm	1300 mm
3.4	Overall Open Height (H1)	1550 mm	1750 mm	1850 mm
3.5	Loading Height (H2)	900 mm	900 mm	900 mm
4.0	Other Specifications			
4.1	Reservoir Tank Capacity	120 L	200 L	280 L
4.2	Wash Pressure (Max)	4.0 Bar	4.0 Bar	4.0 Bar
4.3	Wash Capacity (Max)	80 Lpm	100 Lpm	150 Lpm
4.4	Heaters Capacity	3.0 Kw@3-Phase	6.0 Kw@3-Phase	9.0 Kw@3-Phase
4.5	Heat-Up Time (approx.)	60 ~ 90 mins	60 ~ 90 mins	60 ~ 90 mins
4.6	Wash Temperature (Max)	60 ~ 70 deg-C	60 ~ 70 deg-C	60 ~ 70 deg-C
4.7	Wash Duration (approx.)	15 ~ 30 mins	15 ~ 30 mins	15 ~ 30 mins
4.8	Exhaust Fan (Option)	2.0 m³/ min	3.0 m³/ min	5.0 m³/ min
4.9	Equipment Weight (Est.)	180 Kg	250 Kg	350 Kg
5.0	Utilities Requirements			
5.1	Electrical Supply ^B	380 ~ 400 Volts ^B	380 ~ 400 Volts ^B	380 ~ 400 Volts ^B
5.2	No. of Phase/ Frequency ^B	3-Phase/ 50 Hz ^B	3-Phase/ 50 Hz ^B	3-Phase/ 50 Hz ^B
5.3	Connected Load (Max)	6.0 Kw (TPN+E)	9.0 Kw (TPN+E)	12.0 Kw (TPN+E)
5.4	Exhaust Outlet Opening	Dia. 75 mm	Dia. 100 mm	Dia. 125 mm
5.5	Drainage Outlet	DN 25	DN 25	DN 25

Machine specifications are subject to change without prior notice.

NOTE: ^A All other sizes can be offered as an option.

^B All other electrical power supply can be offered as an option.

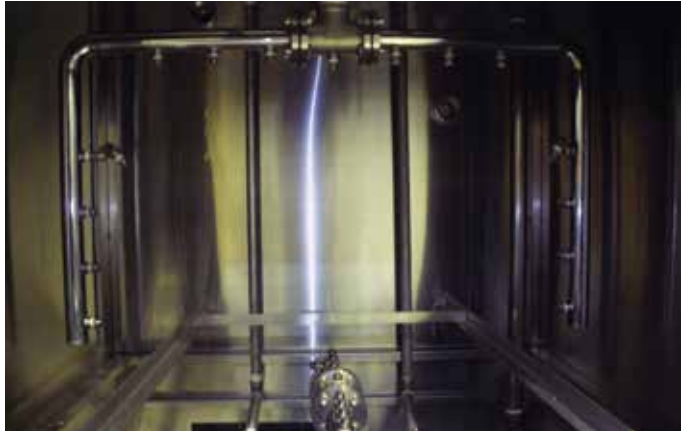
CYCLOJET INEX-PLUS SERIES



The **Cyclojet INEX-PLUS Series** is the latest type of component cleaning system developed by Cyclosystem for various industrial applications. With extensive research, it is the best-equipped economical cabinet parts washer under our Cyclojet range. Cyclojet INEX PLUS is a multi-stage industrial parts washing system that offers different cleaning technologies : Spray Jet, Immersion Cleaning and an optional Ultrasonic Cleaning and Drying Stage in a single equipment.

The Cleaner comes in three different sizes: **Small, Medium** and **Large** and is compactly and ergonomically designed to suit the modern production floor.

All parts of the machine which are in direct contact with the cleaning fluid are fabricated with good stainless steel grade material. The layout of the major components such as wash pump, immersion heaters, electrical switchboard, etc. are strategically



positioned so that they can be easily accessed for both operational and maintenance requirements. Many other innovative, yet simple, features have been incorporated into the design of the Cyclojet INEX-PLUS Multi-stage Cleaning System to make it a truly powerful machine. The Cleaner is best suited for aqueous-based cleaning but, with some slight modifications, the machine can also be used for other solvent-based cleaning.



Key Features:

- Comes in standard **Small, Medium & Large** sizes
- Modular, compact and ergonomic sleek design
- Aqueous-based cleaning using biodegradable detergent
- Very high cleaning efficiency and reliability
- Combining Spray Jets & Immersion Cleaning technologies
- Fully automatic operation with different sets of menu program
- Machine configurable with many optional features
- Water-based cleaning with 100% automatic filtering and recycling
- Complete stainless steel construction on all wetted parts
- Special load basket carriage with auto lifting & mechanical oscillation system
- High pressure multi-stage stainless steel immersion wash pump
- Stainless steel hinged door, which also acts as a wash basket drip pan
- Integrated stainless steel door drip pan and wash basket
- Viewing window & internal LED lightings
- Full access wash chamber slide-out side service hatch
- Special integrated machine base skid c/w castor wheels & levelling legs
- Multi-stage high pressure wash pump with pressure adjustment & monitoring
- Electric heating with microprocessor-based digital temperature control
- Fully insulated reservoir tank for energy conservation
- Inclined reservoir tank bottom & collector sump for heavy sludge
- Oil Skimmer or Oil Separator option for removal of waste oil
- Automatic exhaust system
- Stainless steel wash basket, coarse particles strainers and piping system
- Comprehensive electro-mechanical safety interlock system
- Integrated PLC-based HMI main control panel c/w multi-color LED light monitoring status



Options/Accessories:

- **Steam Extractor** – for automatic extraction of hot steam out of the wash chamber before opening the door as a personnel safety precaution.
- **Oil-Skimmer Assembly** – for automatic removal of floating waste oil out of the reservoir tank to prolong the bath life.
- **Oil-Separator Assembly** – for positive & effective removal of floating waste oil automatically out of the wash reservoir to prolong the bath life.
- **Manual Spray Gun** – for manual cleaning of the washparts using a separate pump and control system.
- **Manual Blow Dry Gun** – for manual blow drying of washparts using factory CDA supply.
- **Small Parts Basket** – for containment of small parts during the washing process to prevent them from "flying" around in the wash chamber.
- **Fine Particles Filters** – for entrapping fine particles during the washing process using filter bags system with stainless filter housing and pressure gauge monitoring.
- **Auto-Lifting Door System** – instead of standard hinged door design c/w safety integrated interlocks.
- **Auto-Drainage Transfer System** – for automatic drainage collection and transferring of excess waste water during operation (exclude room piping).
- **Auto-Drying System** – for automatic drying of washparts within the wash chamber using integrated turbine blower and air knives.
- **Auto-Detergent Dosage System** – for automatic monitoring & dispensing of wash detergent inside the wash tank reservoir.
- **Ultrasonic System** – for ultra high immersion cleaning result using patented high efficiency tubular ultrasonic resonators and generators in the wash tank.

Benefits/Advantages:

- Simple, compact and reliable
- Industry-proven design
- High cleaning efficiency
- Water-based cleaning using environmentally friendly detergent
- Automatic filtering and recycling
- Low cost investment & operation
- Easy maintenance and servicing
- Optimizing operator's productivity
- Powerful to clean almost any mechanical parts
- Can be configured from a simple to a sophisticated cleaning machine

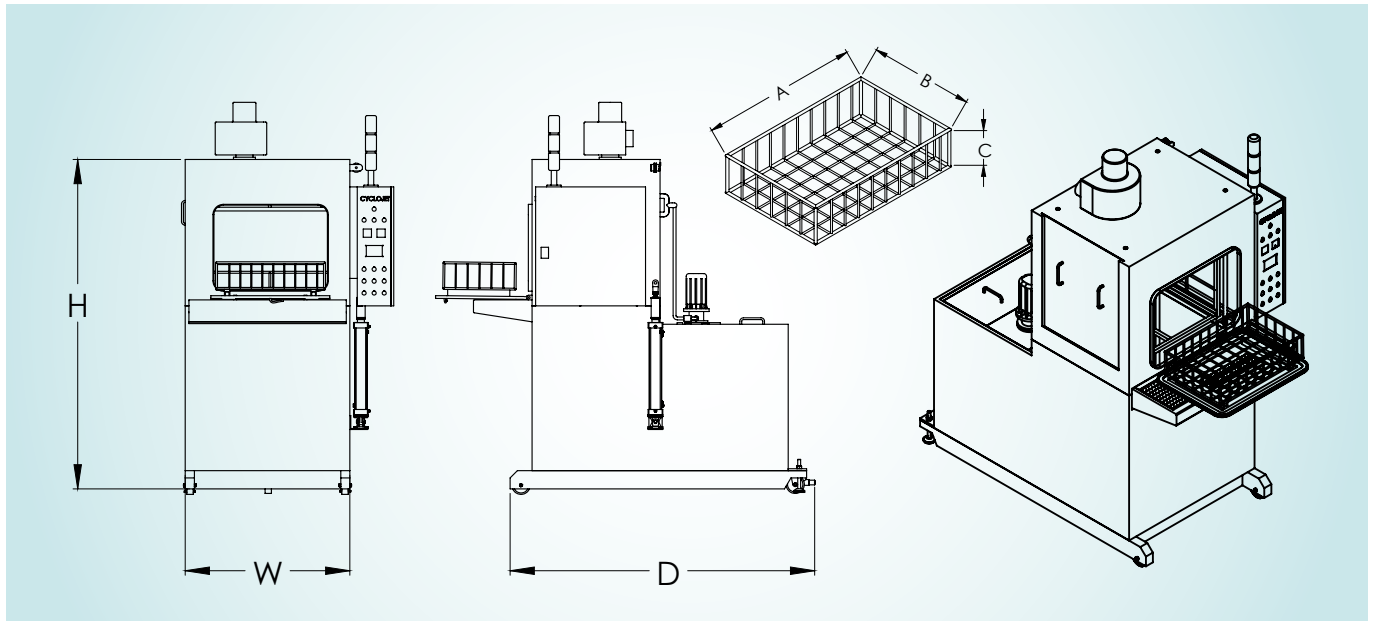
Industrial Applications:

- Aerospace
- Automotive
- Engines & Turbines Overhaul
- Maintenance Workshop
- Manufacturing
- Metal Forming
- Metal Machining
- Printing
- Railway Depot
- Shipyard



CYCLOJET INEX-PLUS SERIES

(Small/Medium/Large)



Technical Specifications

S/N	DESCRIPTIONS	SMALL	MEDIUM	LARGE
1.0	MODEL NO.	CJ-4030-IP	CJ-6040-IP	CJ-8050-IP
2.0	Wash Basket			
2.1	Maximum Size (A x B x C) ^A	400 x 300 x 150 mm ^A	600 x 400 x 150 mm ^A	800 x 500 x 150 mm ^A
2.2	Door Opening	450 x 500 mm	650 x 500 mm	850 x 500 mm
2.3	Maximum Load Capacity	25 Kg	50 Kg	100 Kg
3.0	Principal Dimensions			
3.1	Overall Size (W x D x H)	1000 x 1300 x 2000 mm	1300 x 1400 x 2100 mm	1500 x 1600 x 2200 mm
3.2	Loading Height (H)	950 ~ 1000 mm	950 ~ 1000 mm	950 ~ 1000 mm
4.0	Other Specifications			
4.1	Wash Tank Capacity	600 L	900 L	1400 L
4.2	Wash Pressure (Max)	2.0 ~ 3.0 Bar	3.0 ~ 4.0 Bar	4.0 ~ 5.0 Bar
4.3	Wash Capacity (Max)	80 Lpm	100 Lpm	150 Lpm
4.4	Heaters Capacity (3-Ph)	12.0 Kw	18.0 Kw	24.0 Kw
4.5	Heat-Up Time (approx.)	60 ~ 90 mins	60 ~ 90 mins	60 ~ 90 mins
4.6	Wash Temperature (Max)	60 ~ 70 deg-C	60 ~ 70 deg-C	60 ~ 70 deg-C
4.7	Wash Duration (approx.)	15 ~ 30 mins	15 ~ 30 mins	15 ~ 30 mins
4.8	Exhaust Fan (Option)	2.5 m ³ / min	3.0 m ³ / min	4.0 m ³ / min
4.9	Equipment Weight (Est.)	450 Kg	700 Kg	1000 Kg
5.0	Utilities Requirements			
5.1	Electrical Supply ^B	380 ~ 400 Volts ^B	380 ~ 400 Volts ^B	380 ~ 400 Volts ^B
5.2	No. of Phase/ Frequency ^B	3-Phase/ 50 Hz ^B	3-Phase/ 50 Hz ^B	3-Phase/ 50 Hz ^B
5.3	Connected Load (Max)	6.0 Kw (TPN+E)	9.0 Kw (TPN+E)	12.0 Kw (TPN+E)
5.4	Air Supply/ Connections	4 ~ 6 Kg/ @ ½" BSP	4 ~ 6 Kg/ @ ½" BSP	4 ~ 6 Kg/ @ ½" BSP
5.5	Exhaust Outlet Opening	Dia. 75 mm	Dia. 100 mm	Dia. 125 mm
5.6	Drainage Outlet	Dia. 50 mm	Dia. 50 mm	Dia. 50 mm

Machine specifications are subject to change without prior notice.

NOTE: ^A All other sizes can be offered as an option.

^B All other electrical power supply can be offered as an option.

CYCLOJET HEAVY-DUTY (LD) SERIES

For automatic cleaning of medium to large size components – whether in multiple pieces basket load or large single parts, the **Cyclojet “LD” Series** is probably the most suitable choice of equipment in the industry.

The **Cyclojet LD Series Cleaners** come in several standard sizes but can also be customized to suit the end-users' requirements. The LD Series are also designed in **Single Stage** or **Multiple Stage Cleaning**. Single Stage Cleaners are most commonly used as they are simple and competitively priced. The Multiple Stage Cleaners are used for cleaning washparts which requires a higher level of cleaning. Typical process choice for these Multiple Cleaners include : Clean > Rinse > Dry.

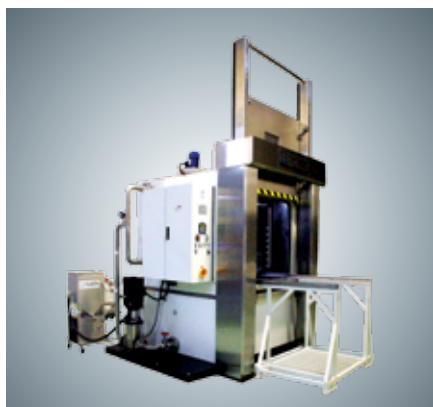


The **Cyclojet LD Series Cleaners** are modularly designed and have many options to upgrade basic equipment to a very sophisticated cleaning machine. The Cleaners use high pressure Spray Jet Cleaning Technology to clean and rinse the washparts effectively. The integrated spray jets covers almost all angles of the washparts and are self-propelled by the forces of the jets itself – with the aid of a special Cyclosystem-designed rotary water distributor. The wash solutions are automatically diverted to separate reservoir tanks or used as a top up of the main cleaning tank reservoir. The wash solutions are completely filtered and automatically recycled within the Cleaner. The timing for cleaning and rinsing processes are fully programmable. The Cleaners are designed with front lifting door with retractable wash platform which allows heavy parts to be loaded or unloaded into or out of the Cleaner easily. All parts of the equipment which are in direct contact with the cleaning solution are designed and fabricated with corrosion-resistance stainless steel materials. The Cleaners are also fully insulated from both heat and sound during operation and have many electro-mechanical safety interlocks to ensure a safe and reliable operation. An integrated main control panel provides all the necessary electrical control and monitoring system - using the latest PLC and HMI touch-screen technology.

Key Features:

- Comes in **Small, Medium** and **Large** sizes
- Single or Multiple-stage cleaning process
- Suitable for cleaning of large and heavy-duty washparts
- Fully automatic operation with full process monitoring and control
- Automatic lifting door with option for pass-through dual door design
- Industry-proven design and a workhorse to many satisfied clients
- High cleaning efficiency and reliability
- Aesthetically and ergonomically designed
- Full stainless steel construction on all wetted parts
- Self-propelled or motorized high pressure integrated spray jets
- Water-based cleaning with 100% automatic filtering and recycling
- Automatic wash/rinse water diversion and filtration system
- Rugged and modularly constructed with many options for "Add-Ons"
- Electric heating with microprocessor-based digital temperature control
- Stainless steel wash basket, coarse particles strainers and piping system
- Multi-stage high pressure wash pump with pressure adjustment & monitoring
- Large reservoir tank with full access for servicing and drainage valve
- Viewing window with LED lighting and laminated glasses
- Heavy-duty wash platform c/w fixed loading station or wash basket trolley
- Large service hatch and drainage valves
- Comprehensive electro-mechanical safety interlock system
- Integrated stainless steel PLC-based HMI main control panel



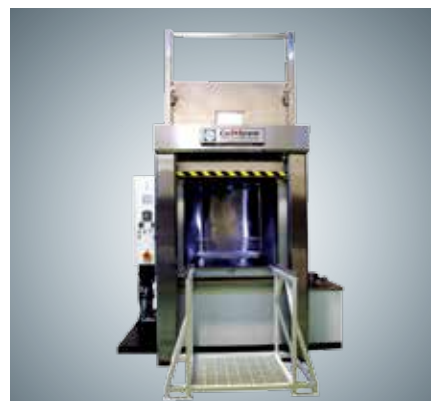


Options/Accessories:

- **Steam Extractor** – for automatic extraction of hot steam out of the wash chamber before opening the door as a personnel safety precaution.
- **Oil-Skimmer Assembly** – for automatic removal of floating waste oil out of the reservoir tank to prolong the bath life.
- **Oil-Separator Assembly** – for positive & effective removal of floating waste oil automatically out of the wash reservoir to prolong the bath life.
- **Manual Spray Gun** – for manual cleaning of the washparts using a separate pump and control system.
- **Manual Blow Dry Gun** – for manual blow drying of washparts using factory CDA supply.
- **Small Parts Basket** – for containment of small parts during the washing process to prevent them from “flying” around in the wash chamber.
- **Fine Particles Filters** – for entrapping fine particles during the washing process using filter bags system with stainless filter housing and pressure gauge monitoring.
- **Double-Lifting Door System** – instead of standard Single Door design c/w safety integrated interlocks for washparts to pass through the design.
- **Auto-Drainage Transfer System** – for automatic drainage collection and transferring of excess waste water during operation (exclude room piping).
- **Auto-Drying System** – for automatic drying of washparts within the wash chamber using integrated turbine blower and air knives.
- **Auto-Detergent Dosage System** – for automatic monitoring & dispensing of wash detergent inside the wash tank reservoir.
- **Fog Rinse System** – a low volume of automatic fresh water rinse system for Single Stage cleaning machine which also acts as a wash tank refill.

Benefits/Advantages:

- Simple, compact and reliable
- Cleaning of heavy-duty medium & large parts
- Industry-proven design
- High cleaning efficiency
- Water-based cleaning using environmentally friendly detergent
- Automatic filtering and recycling
- Low cost investment & operation
- Easy maintenance and servicing
- Optimizing operator's productivity
- Powerful to clean almost any mechanical parts
- Can be configured from a simple to a sophisticated cleaning machine

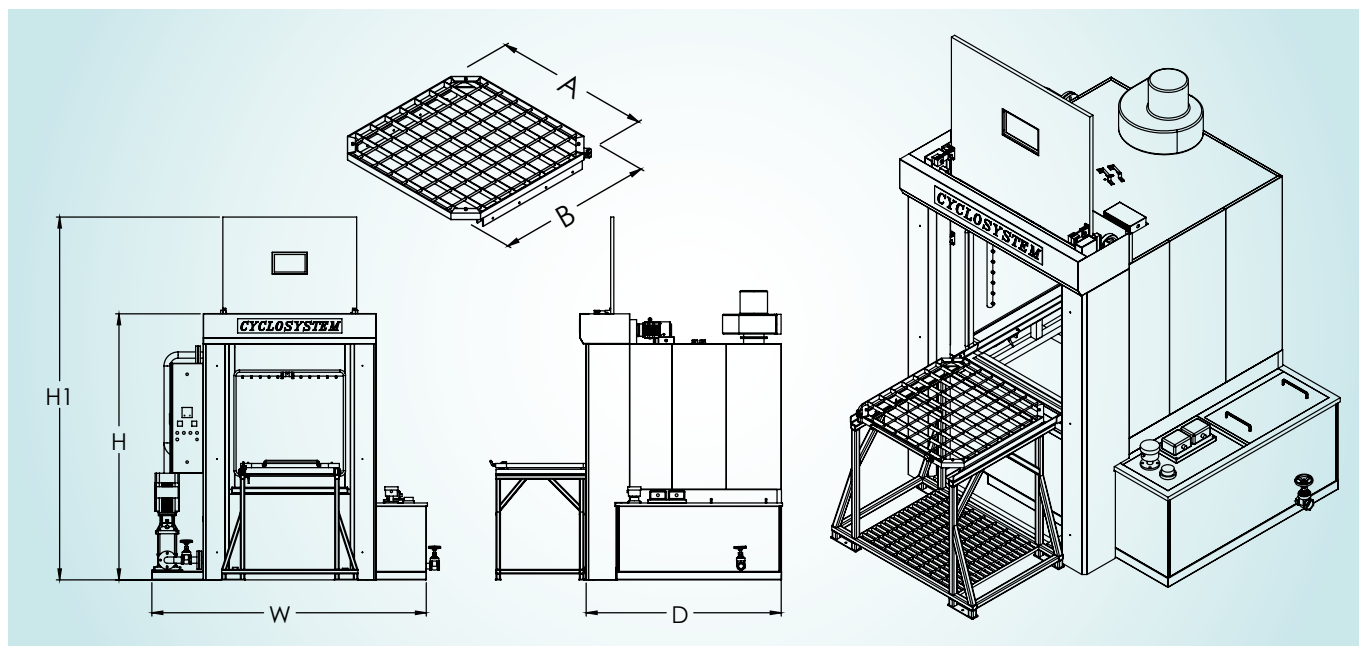


Industrial Applications:

- Aerospace & Military
- Automotive & Heavy Vehicles Servicing
- Engines & Turbines Overhaul
- Heavy Maintenance Workshop
- Medium & Heavy Manufacturing Sector
- Metal Forming & Casting
- Metal Machining
- Railway Maintenance Depot
- Shipyard, Marine & Offshore
- Others

CYCLOJET HEAVY-DUTY (LD) SERIES

(LD Single Stage)



Technical Specifications

S/N	DESCRIPTIONS	SMALL	MEDIUM	LARGE
1.0	MODEL NO.	CJS-1200-LD	CJS-1600-LD	CJS-2000-LD
2.0	Wash Platform			
2.1	Maximum Size (A x B) ^A	900 x 900 mm ^A	1200 x 1200 mm ^A	1500 x 1500 mm ^A
2.2	Maximum Load Capacity	1000 Kg	1500 Kg	2000 Kg
3.0	Principal Dimensions			
3.1	Width (W)	2700 mm	3100 mm	3500 mm
3.2	Depth (D)	1600 mm	2000 mm	2400 mm
3.3	Height (H/ H1) ^B	2450/ 3550 mm ^B	2450/ 3550 mm ^B	2450/ 3550 mm ^B
4.0	Other Specifications			
4.1	Wash Tank Capacity	1000 L	1500 L	2000 L
4.2	Wash Pump Capacity ^C	4.0 Bar @ 150 Lpm ^C	4.0 Bar @ 200 Lpm ^C	4.0 Bar @ 250 Lpm ^C
4.3	Heaters Capacity (3-Ph)	24.0 Kw	36.0 Kw	48.0 Kw
4.4	Heat-Up Time (approx.)	60 ~ 90 mins	60 ~ 90 mins	60 ~ 90 mins
4.5	Wash Temperature (Max)	60 ~ 70 deg-C	60 ~ 70 deg-C	60 ~ 70 deg-C
4.6	Wash Duration (approx.)	15 ~ 30 mins	15 ~ 30 mins	15 ~ 30 mins
4.7	Exhaust Fan (Option)	2.0 m ³ / min	3.0 m ³ / min	4.0 m ³ / min
4.8	Equipment Weight (Est.)	1000 Kg	1500 Kg	2500 Kg
5.0	Utilities Requirements			
5.1	Electrical Supply ^D	380 ~ 400 Volts ^D	380 ~ 400 Volts ^D	380 ~ 400 Volts ^D
5.2	No. of Phase/ Frequency ^D	3-Phase/ 50 Hz ^D	3-Phase/ 50 Hz ^D	3-Phase/ 50 Hz ^D
5.3	Connected Load (Max)	24.0 Kw (TPN+E)	42.0 Kw (TPN+E)	55.0 Kw (TPN+E)
5.4	Air Supply/ Connections	4 ~ 6 Kg/ @ 1/4" BSP	4 ~ 6 Kg/ @ 1/4" BSP	4 ~ 6 Kg/ @ 1/4" BSP
5.5	Exhaust Outlet Opening	Dia. 75 mm	Dia. 100 mm	Dia. 125 mm
5.6	Drainage Outlet	DN 50	DN 50	DN 50

Machine specifications are subject to change without prior notice.

NOTE: ^A All other sizes can be offered as an option.

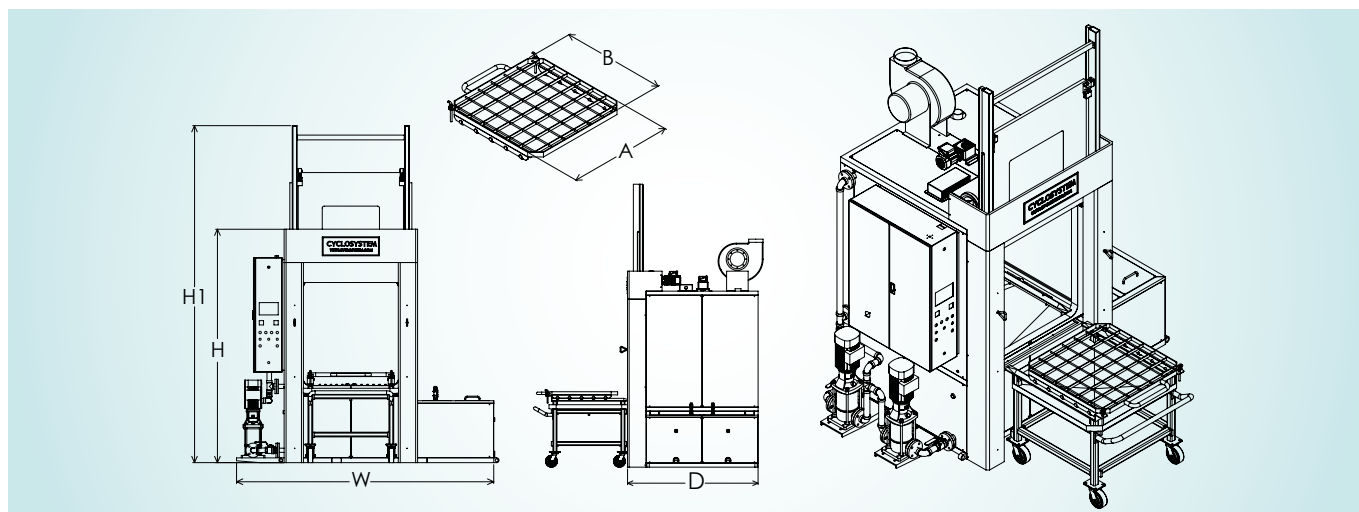
^B These dimensions are based on standard loading height but may change due to washparts height.

^C Based on approximate maximum pump capacity.

^D All other electrical power supply can be offered as an option.

CYCLOJET HEAVY-DUTY (LD) SERIES

(LD Multi-Stage)



Technical Specifications

S/N	DESCRIPTIONS	SMALL	MEDIUM	LARGE
1.0	MODEL NO.	CJM-1200-LD	CJM-1600-LD	CJM-2000-LD
2.0	Wash Platform			
2.1	Maximum Size (A x B) ^A	900 x 900 mm ^A	1200 x 1200 mm ^A	1500 x 1500 mm ^A
2.2	Maximum Load Capacity	1000 Kg	1500 Kg	2000 Kg
3.0	Principal Dimensions			
3.1	Width (W)	2700 mm	3100 mm	3500 mm
3.2	Depth (D)	1600 mm	2000 mm	2400 mm
3.3	Height (H/ H1) ^B	2450/ 3550 mm ^B	2450/ 3550 mm ^B	2450/ 3550 mm ^B
4.0	Other Specifications			
4.1	Wash Tank Capacity	500 L	750 L	1000 L
4.2	Rinse Tank Capacity	500 L	750 L	1000 L
4.3	Wash Pump Capacity ^C	4.0 Bar @ 150 Lpm ^C	4.0 Bar @ 200 Lpm ^C	4.0 Bar @ 250 Lpm ^C
4.4	Rinse Pump Capacity ^C	4.0 Bar @ 150 Lpm ^C	4.0 Bar @ 200 Lpm ^C	4.0 Bar @ 250 Lpm ^C
4.5	Wash Tank Heating (3-Ph)	12.0 Kw	18.0 Kw	24.0 Kw
4.6	Rinse Tank Heating (3-Ph)	12.0 Kw	18.0 Kw	24.0 Kw
4.7	Heat-Up Time (approx.)	60 ~ 90 mins	60 ~ 90 mins	60 ~ 90 mins
4.8	Wash Temperature (Max)	60 ~ 70 deg-C	60 ~ 70 deg-C	60 ~ 70 deg-C
4.9	Wash Duration (approx.)	15 ~ 30 mins	15 ~ 30 mins	15 ~ 30 mins
4.10	Rinse Duration (approx.)	5 ~ 10 mins	5 ~ 10 mins	5 ~ 10 mins
4.11	Exhaust Fan (Option)	2.0 m ³ / min	3.0 m ³ / min	4.0 m ³ / min
4.12	Equipment Weight (Est.)	1500 Kg	2000 Kg	3000 Kg
5.0	Utilities Requirements			
5.1	Electrical Supply ^D	380 ~ 400 Volts ^D	380 ~ 400 Volts ^D	380 ~ 400 Volts ^D
5.2	No. of Phase/ Frequency ^D	3-Phase/ 50 Hz ^D	3-Phase/ 50 Hz ^D	3-Phase/ 60 Hz ^D
5.3	Connected Load (Max)	30.0 Kw (TPN+E)	45.0 Kw (TPN+E)	60.0 Kw (TPN+E)
5.4	Air Supply/ Connections	4 ~ 6 Bar @ 1/4" BSP	4 ~ 6 Bar @ 1/4" BSP	4 ~ 6 Bar @ 1/4" BSP
5.5	Exhaust Outlet Opening	Dia. 75 mm	Dia. 100 mm	Dia. 125 mm
5.6	Drainage Outlet	DN 50	DN 50	DN 50

Machine specifications are subject to change without prior notice.

NOTE: ^A All other sizes can be offered as an option.

^B These dimensions are based on standard loading height but may change due to washparts height.

^C Based on approximate maximum pump capacity.

^D All other electrical power supply can be offered as an option.

CONVEYORIZED/TUNNEL CLEANERS



Key Features:

- Multi-stage progressive cleaning of mass produced mechanical parts
- Fully automatic operation with full process monitoring and control
- High cleaning efficiency and reliability
- Aesthetically and ergonomically designed
- Full stainless steel construction on all wetted parts
- Water-based cleaning with 100% automatic filtering and recycling
- Automatic wash/rinse water diversion and filtration system
- Electric heating with microprocessor-based digital temperature control

Benefits/Advantages:

- Continuous cleaning of mass produced small or medium mechanical parts
- High cleaning efficiency and reliability
- Water-based cleaning using environmentally friendly detergent
- Automatic filtering and recycling
- Easy maintenance and servicing
- Optimizing operator's productivity
- Can be configured from a simple to a sophisticated cleaning machine

Industrial Applications:

- Automotive Parts
- Metal Forming and Stamping
- Moulding & Casting
- PCBs Manufacturing
- Precision Machining
- Other Manufacturing Sector

The **CYCLOJET ConveyORIZED/Tunnel Cleaners** are best suited for cleaning small to medium-sized mass production mechanical parts – using aqueous-based medium to high pressure spray jet cleaning technology. The cleaning process is continuous and involves several stages of cleaning and rinsing processes with options for different types of drying stages. For critical and thorough cleaning requirements, Ultrasonic Cleaning technology may be employed as an option.

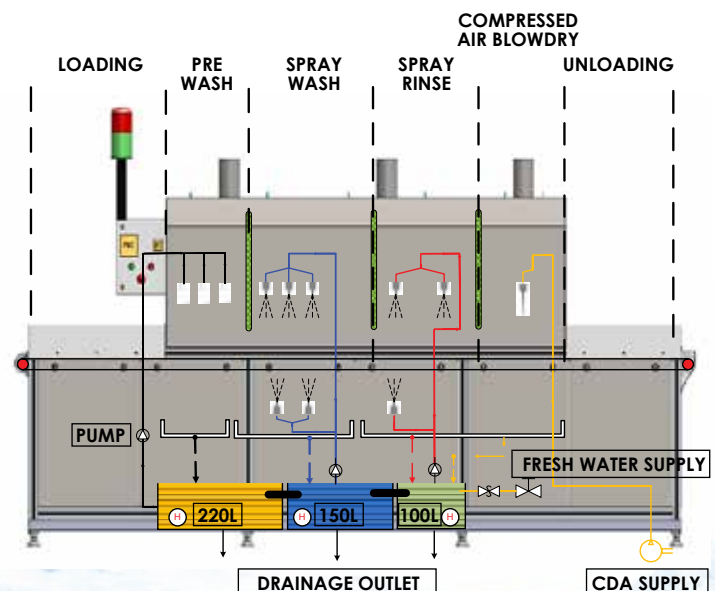
The **Cyclojet ConveyORIZED/Tunnel Cleaners** come in three standard sizes : **Small/ Medium/ Large** – according to the width of the conveyor – with an option to customize other sizes. The typical standard cleaning process is as follows :

LOAD > SPRAY CLEAN > SPRAY RINSE > FINAL RINSE >

BLOW-DRY > UNLOAD – with other stages as option. An optional fully integrated ConveyORIZED Drying Oven can also be incorporated into the Cleaning System to ensure 100% drying of the clean parts.

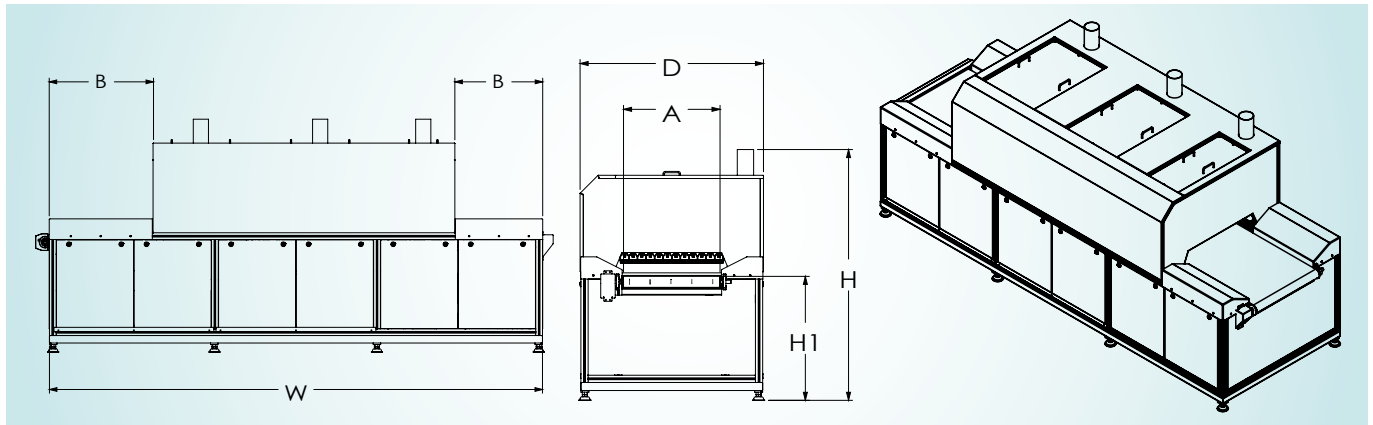
Options/Accessories:

- **Steam Extractor** – for automatic extraction of hot steam out of the wash chamber or hot air out of the drying chamber.
- **Oil-Separator Assembly** – for positive & effective removal of floating waste oil automatically out of the wash reservoir to prolong the bath life.
- **Fine Particles Filters** – for entrapping fine particles during the washing process using filter bags system with stainless filter housing and pressure gauge monitoring.
- **Auto-Detergent Dosage System** – for automatic monitoring & dispensing of wash detergent inside the wash tank reservoir.
- **Conveyor Drying Oven** – a standalone or integrated conveyor oven for automatic drying of washparts using turbine blower, air knives and other heating system.



CYCLOJET CONVEYORIZED/TUNNEL CLEANERS

(Small/Medium/Large)



Technical Specifications

S/N	DESCRIPTIONS	SMALL	MEDIUM	LARGE
1.0	MODEL NO.	CTC-400-5S	CTC-600-5S	CTC-800-5S
2.0	Load/ Unload Stations			
2.1	Conveyor Width (A) ^A	400 mm ^A	600 mm ^A	800 mm ^A
2.2	Conveyor Length (B) ^A	600 mm ^A	800 mm ^A	1000 mm ^A
2.3	Maximum Load Capacity	10 Kg/ Load	15 Kg/ Load	25 Kg/ Load
3.0	Principal Dimensions			
3.1	Width (W)	900 mm	1100 mm	1300 mm
3.2	Depth (D)	3000 mm	3400 mm	3800 mm
3.3	Height (H)	1250 mm	1250 mm	1250 mm
3.4	Loading Height (H1) ^B	900 mm ^B	900 mm ^B	900 mm ^B
4.0	Other Specifications			
4.1	Wash Capacity	150 L	200 L	300 L
4.2	Rinse Tank Capacity	150 L	200 L	300 L
4.3	Wash Pump Capacity ^C	4.0 Bar @ 100 Lpm ^C	4.0 Bar @ 150 Lpm ^C	4.0 Bar @ 250 Lpm ^C
4.4	Rinse Pump Capacity ^C	4.0 Bar @ 100 Lpm ^C	4.0 Bar @ 150 Lpm ^C	4.0 Bar @ 250 Lpm ^C
4.5	Wash Tank Heating (3-Ph)	9.0 Kw	12.0 Kw	18.0 Kw
4.6	Rinse Tank Heating (3-Ph)	9.0 Kw	12.0 Kw	18.0 Kw
4.7	Heat-Up Time (approx.)	60 ~ 90 mins	60 ~ 90 mins	60 ~ 90 mins
4.8	Wash Temperature (Max)	60 ~ 70 deg-C	60 ~ 70 deg-C	Continuous
4.9	Wash Duration (approx.)	Continuous	Continuous	Continuous
4.10	Rinse Duration (approx.)	Continuous	Continuous	Continuous
4.11	Exhaust Fan (Option)	1.0 m³/ min	1.5 m³/ min	2.0 m³/ min
4.12	Equipment Weight (Est.)	1500 Kg	1800 Kg	2400 Kg
5.0	Utilities Requirements			
5.1	Electrical Supply ^D	380 ~ 400 Volts ^D	380 ~ 400 Volts ^D	380 ~ 400 Volts ^D
5.2	No. of Phase/ Frequency ^D	3-Phase/ 50 Hz ^D	3-Phase/ 50 Hz ^D	3-Phase/ 50 Hz ^D
5.3	Connected Load (Max)	45.0 Kw (TPN+E)	60.0 Kw (TPN+E)	75.0 Kw (TPN+E)
5.4	Air Supply/ Connections	4 ~ 6 Bar @ ½" BSP	4 ~ 6 Bar @ 1" BSP	4 ~ 6 Bar @ 1" BSP
5.5	Exhaust Outlet Opening	Dia. 100 mm	Dia. 100 mm	Dia. 125 mm
5.6	Drainage Outlet	Dia. 50 mm	Dia. 50 mm	Dia. 50 mm

Machine specifications are subject to change without prior notice.

NOTE: ^A All other sizes can be offered as an option.

^B These dimensions are based on standard loading height but may change due to washparts height.

^C Based on approximate maximum pump capacity.

^D All other electrical power supply can be offered as an option.

OTHER CUSTOMIZED EQUIPMENT



Rotary Drum Cleaner/Dryer



Customized Wheel Hub Cleaner



Multi-Purpose Cleaning Booth (Wet/Dry)



ISO Tank Cleaner

SUPPORTING EQUIPMENT



Cycloheat

Standard & Customized Industrial Drying Ovens



Cycloclean

Aqueous-Based Biodegradable Cleaning Agents & Detergents



Cyclotreat

Industrial Waste Water Treatment Plants

SPECIAL RAILWAY CLEANING EQUIPMENT



Bearing Cleaners



Traction Motor Cleaners



Ultra High Pressure Robotic Bogie/Wheelset Wash Plant



Automatic Bogie Wash Plant

SPECIAL RAILWAY CLEANING EQUIPMENT



Automatic Train Wash Plant

SPECIAL RAILWAY CLEANING EQUIPMENT



Automatic UnderFrame Cleaning System

SPECIAL RAILWAY CLEANING EQUIPMENT



Track and Tunnel Cleaning Wagons

Please contact us to custom design other cleaning equipment to meet your specific requirement.

BULOX

CORPORATION



a Bulox Corporation company

BULOX POWER PTE LTD
'Electrical Power Equipment'
WWW.BULOXPOWER.COM
sales@buloxpower.com



CyclSystem
Process & Cleaning Technology

a Bulox Corporation company

CYCLOSYSTEM PTE LTD
'Process & Cleaning Technology'
WWW.CYCLOSYSTEM.COM
sales@cyclosystem.com



a Bulox Corporation company

BULOX EQUIPMENT PTE LTD
'Railway Depot Equipment'
WWW.BULOXEQUIPMENT.COM
sales@cyclosystem.com

CYCLOSYSTEM PTE LTD

15 WOODLANDS SECTOR 1 SINGAPORE 738355
TEL: (65) 6455 4111 FAX: (65) 6455 0111
WEBSITE: WWW.CYCLOSYSTEM.COM

PROCESS & CLEANING TECHNOLOGY