



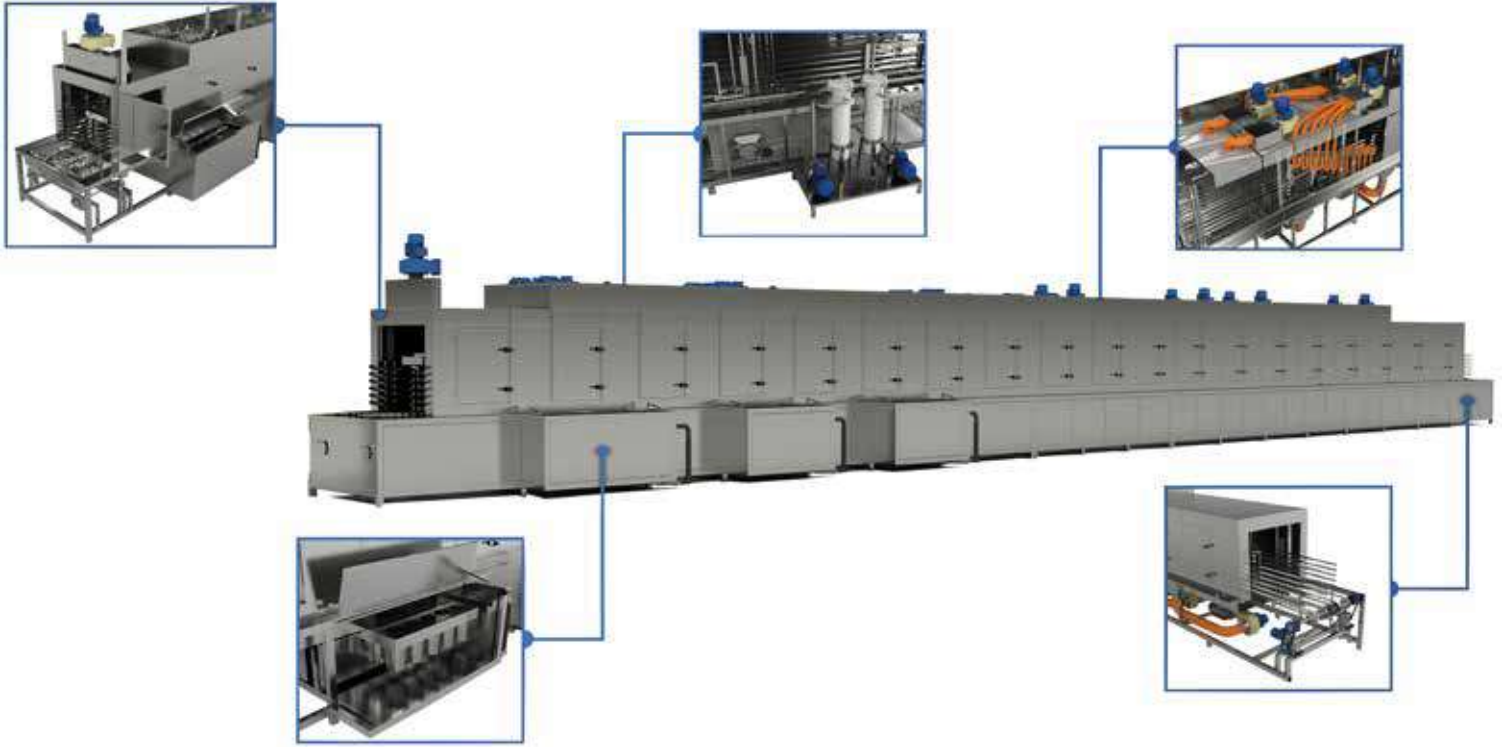
# Global Industrial Cleaning Solution

## **Everest** Parts Washers

Manufacturers of industrial ultrasonic & spray aqueous cleaning systems.

[www.everestmakine.com](http://www.everestmakine.com)





# About Us

Everest Elektromekanik company has been designing and manufacturing both ultrasonic and spray industrial cleaning systems since the year 2003. During that time many internationally renowned companies have relied on our knowledge, expertise and experience to find the best cleaning solution to their needs and requirements. Between 2003 to present day we have continually increased the type of cleaning solutions we can offer and manufacture increasing our product range, diversity and cleaning options. This continual growth has allowed us to improve our machinery and service each year and allowed us to assist in the last 2 years customers in over 35 different countries around the world.



At Everest Elektromekanik we concentrate our full attention exclusively to the highest quality in all aspects of our work to give all our customers the maximum satisfaction. All our products are manufactured conforming to the latest CE regulations and our company is ISO 9001-2008 registered. We are able to offer a very good quality product with a very reasonable price and we are always ready to help you for any existing or new cleaning applications.

In recent years Everest has become a successful modern company with qualified technical staff, overseas personnel, high quality manufacturing process equipment and offering the complete engineering service in automation including planning and controlling shipments regarding the consignment of orders.

Visitors are always welcome to visit our manufacturing facility in Istanbul and we look forward to helping you find the best solution to your requirements. We hope to hear from you soon and our full contact details can be found at the rear of this catalogue.



AutoClean ultrasonic cleaning systems, specifically designed for the high and precision cleaning demands of transportation industries such as the aviation, naval, railway and even the engine remanufacturing and repair industries. The AutoClean range has been designed with engine components in mind, cleaning all types of parts from cylinder heads, injectors, engine blocks, brake discs, gearboxes and radiators could all benefit.



### TECHNICAL DETAILS

MODEL	PLATFORM DIMENSIONS (l*w) mm	MAX LOADING HEIGHT mm	AGITATION HEIGHT mm	TANK DIMENSIONS (l*w*d) mm	EXTERNAL DIMENSIONS (l*w*d*) mm	TANK CAPACITIES lt	LOADING WEIGHT kg	ULTRASONIC POWER (peak/eff) watt	ULTRASONIC PLACEMENT	ULTRASONIC FREQUENCY kHz	HEATING POWER kW
AutoClean-200	800*380	300	50	950*500*450	1500*900*900	200	75	4000/2000	Bottom	28 or 40	4
AutoClean-300	800*500	400	50	950*650*550	1500*1150*900	300	250	6000/3000	2 Sides	28 or 40	7,5
AutoClean-400	1100*600	400	50	1250*750*550	1800*1250*900	400	250	8000/4000	2 Sides	28 or 40	7,5
AutoClean-600	1250*700	450	50	1400*850*600	1950*1350*950	600	250	12000/6000	2 Sides	28 or 40	15
AutoClean-800	1250*700	650	50	1400*850*850	1950*1350*1200	800	500	12000/6000	2 Sides	28 or 40	15
AutoClean-1000	1500*750	650	50	1650*900*850	2200*1400*1200	1000	500	16000/8000	2 Sides	28 or 40	22,5
AutoClean-1300	1500*750	900	100	1650*900*1100	2200*1400*1400	1300	500	16000/8000	2 Sides	28 or 40	22,5
AutoClean-2000	1750*900	900	100	1950*1050*1100	2550*1550*1400	2000	900	24000/12000	2 Sides	28 or 40	30
AutoClean-3000	2000*1050	1000	100	2200*1250*1200	2800*1750*1550	3000	900	32000/16000	2 Sides	28 or 40	45
AutoClean-4500	2500*1350	1000	100	2700*1550*1200	3300*2050*1550	4500	900	40000/20000	2 Sides	28 or 40	60
AutoClean-6000	3000*1500	1000	-	3200*1600*1300	3900*2000*1650	6000	1500	48000/24000	2 Sides	28 or 40	75
AutoClean-9000	3500*1600	1200	-	3700*1700*1500	4400*2200*1850	9000	1500	64000/32000	2 Sides	28 or 40	105

The AutoClean's cleaning ability is 16 times more effective than conventional hand washing and with the use of ultrasonic cleaning power this enables you to reach the smallest holes and compartments effectively, meaning cleaning those hard to reach places has never been easier.



- Tank capacities between 200 to 9,000 litres.
- 28kHz standard ultrasonic frequency. 40kHz with sweep generator option available.
- Constructed entirely of stainless steel (AISI 304).
- Tank construction available in AISI 316L or AISI 316Ti.
- Automatic shut off heaters at low water level.
- Adjustment of the cleaning time & water temperature.
- Tailor made design with a large range of optional extras.



MultiClean cleaning systems are available with 2, 3, 4 or 5 tanks from our standard range as well as larger quantities for special system sat request. Tanks can included multiple configurations including pre-washing, ultrasonic cleaning, rinsing, passivation and drying.



### Pre-Washing

Pre-washing is generally used for very dirty and greasy parts before precise cleaning to remove rough contamination to save time, energy, water and cleaning chemical consumption.

### Ultrasonic Washing

Ultrasonic cleaning power is able to reach points that are normally very difficult to reach like small holes and complicated shaped parts which can't be cleaned with a brush or by hand giving better precision cleaning results.

### Rinsing

Cleaning chemical residue can remain on the surface of the parts after cleaning. To wash away these chemical residuals rinsing can be used either by a closed circulation system or by continual fresh water supply.

### Passivation

Sometimes cleaned parts needed be protected against oxidation and by adding an additional stage with a passivation chemical inside the tank you can passivate and protect the parts.

### Drying

After the cleaning process is complete parts can be dried by either hot air or vacuum drying as the final stage according to the geometry of the parts and to customer's requirements.

### Optional Extras

A large range of optional extras are available including oil separator, pump circulation, filtration, basket handling systems, pneumatic lids and many more available at request.



TECHNICAL DETAILS

	MODEL	PROCESS	BASKET SIZE	TANK SIZE	EXTERNAL SIZE	TANK CAPACITY	ULTRASONIC POWER	HEATING POWER
			(l*w*d) mm	(l*w*d) mm	(l*w*d) mm	lt	Watt	KW
MULTICLEAN 2	MULTICLEAN 2-60	Ultrasonic Cleaning Rinsing	450*250*350	550*300*400	1650*600*900	60	750	2/2
	MULTICLEAN 2-80		560*280*350	650*330*400	1900*630*900	80	1000	2/2
	MULTICLEAN 2-120		560*450*350	650*500*400	1900*800*900	120	1250	3/3
	MULTICLEAN 2-160		800*450*350	900*500*400	2350*800*900	160	1500	4/4
	MULTICLEAN 2-240		800*680*350	900*750*400	2350*1050*900	240	2000	6/6
MULTICLEAN 3	MULTICLEAN 3-60	Pre Washing Ultrasonic Cleaning Rinsing	450*250*350	550*300*400	2300*600*900	60	750	2/2/2
	MULTICLEAN 3-80		560*280*350	650*330*400	2670*630*900	80	1000	2/2/2
	MULTICLEAN 3-120		560*450*350	650*500*400	2670*800*900	120	1250	3/3/3
	MULTICLEAN 3-160		800*450*350	900*500*400	3350*800*900	160	1500	4/4/4
	MULTICLEAN 3-240		800*680*350	900*750*400	3350*1050*900	240	2000	6/6/6
MULTICLEAN 4	MULTICLEAN 4-60	Pre Washing Ultrasonic Cleaning Rinsing Drying	450*250*350	550*300*400	2950*600*900	60	750	2/2/2/3
	MULTICLEAN 4-80		560*280*350	650*330*400	3450*630*900	80	1000	2/2/2/3
	MULTICLEAN 4-120		560*450*350	650*500*400	3450*800*900	120	1250	3/3/3/6
	MULTICLEAN 4-160		800*450*350	900*500*400	4400*800*900	160	1500	4/4/4/6
	MULTICLEAN 4-240		800*680*350	900*750*400	4400*1050*900	240	2000	6/6/6/9
MULTICLEAN 5	MULTICLEAN 5-60	Pre Washing Ultrasonic Cleaning Rinsing Passivation Drying	450*250*350	550*300*400	3600*600*900	60	750	2/2/2/2/3
	MULTICLEAN 5-80		560*280*350	650*330*400	5170*630*900	80	1000	2/2/2/2/3
	MULTICLEAN 5-120		560*450*350	650*500*400	5170*800*900	120	1250	3/3/3/3/6
	MULTICLEAN 5-120		800*450*350	900*500*400	5400*800*900	160	1500	4/4/4/4/6
	MULTICLEAN 5-120		800*680*350	900*750*400	5400*1050*900	240	2000	6/6/6/6/9

# MANUAL BASKET HANDLING SYSTEMS

## Crane Handling System

In this type of system the basket transfer is completed by electrical or pneumatic crane from tank to tank. Generally this system is used for high volume tank capacities, long process times and for the transferring of heavy parts. The price for this system is more cost effective against the fully automatic handling systems. The system is controlled with a manual remote control device held by the operator. The maximum handling weight for this system is up to 5 metric tons.



## Pneumatic Handling System

Pneumatic handling systems vertical movement is controlled via a button on the control arm of the robot which works with pneumatic piston. The Horizontal movement is completed manually by the operator by hand. There are bearings on the horizontal beam to assist the operator in moving the parts/basket easily and very smoothly by hand. Utilising compressed air for lifting of the parts/basket, this easy lift system is a significant contributor to the operator's health





# AUTOMATIC BASKET HANDLING SYSTEMS

## Automatic Handling System

Automation of the cleaning process reduces the running costs on multistage systems by assuring consistent, repeatable quality, reducing reject rates, labour costs and increasing throughput. With automatic handling systems further cost reductions can result from controlling speed of basket entry and withdrawal from the tanks.



Adjustable dripping time between tanks.

Reduced running costs.

Easy to use and program.

Password protected to prevent unauthorised program access.

Touch sensitive LCD operation panel for functional programming and display.

Positional accuracy between +/- 1mm provided by servo motors with built-in positional encoders.

The CleanMax range of industrial sized single staged ultrasonic cleaners are designed to be used in industrial applications where heavy duty cleaning demands and performance are widely required. Due to mobile design the CleanMax range are mainly used for maintenance in the medical, laboratory and health industries where precise cleaning and mobility are essential needs.



- Tank capacities between 40 to 160 litres.
- Constructed entirely of stainless steel (AISI 304).
- Tank construction available in AISI 316L or AISI 316Ti.
- Automatic shut off heaters at low water level.
- Adjustment of the cleaning time & water temperature.
- xx02 and xx12 models have a ultrasonic power adjustment feature: 50%, 75%, & 100%.
- High efficiency piezoelectric ultrasonic transducers with special ceramics.
- Drainage valve.

### TECHNICAL DETAILS

MODEL	CONTROL TYPE	BASKET DIMENSIONS (l*w*d) mm	TANK DIMENSIONS (l*w*d) mm	EXTERNAL DIMENSIONS (l*w*d) mm	TANK CAPACITIES lt	ULTRASONIC POWER (peak/eff) Watt	HEATING POWER Watt
CleanMax-4001	Analogue	440*250*250	520*300*300	780*550*940	40	1500/750	1500
CleanMax-4002							
CleanMax-4011	Digital						
CleanMax-4012							
CleanMax-8001	Analogue	560*280*350	650*330*400	950*620*940	80	2000/1000	2000
CleanMax-8002							
CleanMax-8011	Digital						
CleanMax-8012							
CleanMax-16001	Analogue	800*450*350	900*500*400	1200*800*940	160	3000/1500	4000
CleanMax-16002							
CleanMax-16011	Digital						
CleanMax-16012							

The CleanMax-N range of industrial sized single staged ultrasonic cleaners are designed to be used in industrial applications where heavy duty cleaning demands and performance are widely required. The CleanMax-N range are widely used for cleaning parts in the automotive, aviation, metal ware and many other industries where precise parts cleaning is essential prior to surface treatment or final assembly. The CleanMax-N range also offers a large amount of optional accessories ranging from pump filtration systems, oil separators, circulation pumps, weir systems and many more.



- Tank capacities between 40 to 240 litres.
- Constructed entirely of stainless steel (AISI 304).
- Tank construction available in AISI 316L or AISI 316Ti.
- Automatic shut off heaters at low water level.
- Adjustment off the cleaning time & water temperature.
- xx02 and xx12 models have a ultrasonic power adjustment feature: 50%, 75%, & 100%.
- High efficiency piezoelectric ultrasonic transducers with special ceramics.
- Drainage valve.

## TECHNICAL DETAILS

MODEL	CONTROL TYPE	BASKET DIMENSIONS (l*w*d) mm	TANK DIMENSIONS (l*w*d) mm	EXTERNAL DIMENSIONS (l*w*d) mm	TANK CAPACITIES lt	ULTRASONIC POWER (peak/eff) Watt	HEATING POWER Watt
CleanMax N-6001 CleanMax N-6002	Analogue	450*250*350	550*300*400	1100*500*900	60	1500/750	2000
CleanMax N-6011 CleanMax N-6012	Digital						
CleanMax N-8001 CleanMax N-8002	Analogue	560*280*350	650*330*400	1200*530*900	80	2000/1000	2000
CleanMax N-8011 CleanMax N-8012	Digital						
CleanMax N-12001 CleanMax N-12002	Analogue	560*450*350	650*500*400	1200*700*900	120	2500/1250	3000
CleanMax N-12011 CleanMax N-12012	Digital						
CleanMax N-16001 CleanMax N-16002	Analogue	800*450*350	900*500*400	1450*700*900	160	3000/1500	4000
CleanMax N-16011 CleanMax N-16012	Digital						
CleanMax N-24001 CleanMax N-24001	Analogue	800*680*350	900*750*400	1450*1050*900	240	4000/2000	6000
CleanMax N-24011 CleanMax N-24012	Digital						

The CleanEx range of ultrasonic cleaners are portable benchtop machines designed for cleaning small items such as jewellery, laboratory, dental and medical equipment.



- Tank capacities between 4 to 28 litres.
- Constructed entirely of stainless steel (AISI 304).
- Adjustment of the cleaning time & water temperature.
- xx02 and xx12 models have a ultrasonic power adjustment feature: 50%, 75%, & 100%.
- High efficiency piezoelectric ultrasonic transducers with special ceramics.
- Drainage valve (except for cleanEX-4XX models).

### TECHNICAL DETAILS

MODEL	CONTROL TYPE	BASKET DIMENSIONS (l*w*d) mm	TANK DIMENSIONS (l*w*d) mm	EXTERNAL DIMENSIONS (l*w*d) mm	TANK CAPACITIES lt	ULTRASONIC POWER (peak/eff) Watt	HEATING POWER Watt
CleanEx-401	Analogue	190*105*80	240*137*150	340*185*380	4	240/120	225
CleanEx-411	Digital						
CleanEx-901	Analogue	240*190*80	300*240*150	400*295*380	9	500/250	450
CleanEx-902							
CleanEx-911							
CleanEx-912	Digital						
CleanEx-1201	Analogue	240*190*130	300*240*200	400*295*380	12	600/300	660
CleanEx-1202							
CleanEx-1211							
CleanEx-1212	Digital						
CleanEx-2001	Analogue	450*250*80	505*300*150	600*350*430	21	1000/500	900
CleanEx-2002							
CleanEx-2011							
CleanEx-2012	Digital						
CleanEx-2801	Analogue	450*250*130	505*300*200	600*350*430	28	1000/500	1200
CleanEx-2802							
CleanEx-2811							
CleanEx-2812							

The CleanEx-N single stage benchtop ultrasonic cleaners are designed for use in industries where heavy duty demands and performance are required. Available with a number of different optional accessories ranging from pump filtration to an oil separator, this gives the CleanEx-N range more versatility to meet the cleaning demands in many industrial sectors.



- Tank capacities between 10 to 80 litres.
- Constructed entirely of stainless steel (AISI 304).
- Tank construction available in AISI 316L or AISI 316Ti.
- Automatic shut off heaters at low water level.
- Adjustment of the cleaning time & water temperature.
- xx02 and xx12 models have a ultrasonic power adjustment feature: 50%, 75%, & 100%.
- High efficiency piezoelectric ultrasonic transducers with special ceramics.
- Drainage valve.

### TECHNICAL DETAILS

MODEL	CONTROL TYPE	BASKET DIMENSIONS (l*w*d) mm	TANK DIMENSIONS (l*w*d) mm	EXTERNAL DIMENSIONS (l*w*d) mm	TANK CAPACITIES lt	ULTRASONIC POWER (peak/eff) Watt	HEATING POWER Watt
CleanEx N-1001 CleanEx N-1002	Analogue	210*170*160	235*215*200	405*285*425	10	600/300	660
CleanEx N-1011 CleanEx N-1012	Digital						
CleanEx N-2501 CleanEx N-2502	Analogue	400*210*170	450*275*200	620*345*425	24	1000/500	1200
CleanEx N-2511 CleanEx N-2512	Digital						
CleanEx N-4001 CleanEx N-4002	Analogue	450*250*260	500*300*300	640*425*510	42	1500/750	1500
CleanEx N-4011 CleanEx N-4012	Digital						
CleanEx N-5001 CleanEx N-5002	Analogue	450*350*260	500*400*300	620*465*525	55	2000/1000	1800
CleanEx N-5011 CleanEx N-5011	Digital						
CleanEx N-8001 CleanEx N-8002	Analogue	560*450*260	600*500*300	770*565*505	80	2500/1250	2000
CleanEx N-8011 CleanEx N-8012	Digital						

The MobilClean range offers the ultimate in system flexibility for ultrasonic cleaning as the hermetically sealed modular stainless steel units can be incorporated into newly designed systems or retrofitted into existing systems to provide ultrasonic cleaning capability.



- Frequency: 28kHz.
- Ultrasonic Transducer boxes constructed of heavy gauge stainless steel to extend operational life (AISI 316L or AISI 316Ti).
- High efficiency piezoelectric ultrasonic transducers with special ceramics.
- Available with bottom/side mount fixtures or with a hanging hook placed over the tank wall.
- Optional power adjustment feature (50%, 75%, 100%).

### ULTRASONIC MODULES

MODEL	DIMENSIONS (l*w*d) mm	ULTRASONIC POWER Watt
MBL TR 500	400*205*90	500
MBL TR 750-1	380*300*90	750
MBL TR 750-2	525*205*90	750
MBL TR 1000-1	640*225*90	1000
MBL TR 1000-2	750*225*90	1000
MBL TR 1002-3	545*360*90	1000
MBL TR 1250-1	750*225*90	1250
MBL TR 1250-2	545*360*90	1250
MBL TR 1500-1	545*360*90	1500
MBL TR 1500-2	750*360*90	1500
MBL TR 2000-1	750*360*90	2000
MBL TR 2000-2	800*400*90	2000

### ULTRASONIC GENERATORS

MODEL	CONTROL TYPE	ULTRASONIC POWER Watt
MBL GN 500-1	On/Off Control	1000peak/500eff
MBL GN 500-2	On/Off and Power Control	1000peak/500eff
MBL GN 750-1	On/Off Control	1500peak/750eff
MBL GN 750-2	On/Off and Power Control	1500peak/750eff
MBL GN 1000-1	On/Off Control	2000peak/1000eff
MBL GN 1000-2	On/Off and Power Control	2000peak/1000eff
MBL GN 1250-1	On/Off Control	2500peak/1250eff
MBL GN 1250-2	On/Off and Power Control	2500peak/1250eff
MBL GN 1500-1	On/Off Control	3000peak/1500eff
MBL GN 1500-2	On/Off and Power Control	3000peak/1500eff
MBL GN 2000-1	On/Off Control	4000peak/2000eff
MBL GN 2000-2	On/Off and Power Control	4000peak/2000eff

MobileClean-N immersible type of modules offer a full range of features to meet any precision cleaning requirements found within many industries. The high frequency generators with a high efficiency circuits are designed for lower energy consumption and provides an unprecedented high precision cleaning performance.



Frequency: 28kHz or 40kHz.

Ultrasonic Transducer boxes constructed of heavy gauge stainless steel to extend operational life (AISI 316L or AISI 316Ti).

High efficiency piezoelectric ultrasonic transducers with special ceramics. - Available with bottom/side mount fixtures or with a hanging hook placed over the tank wall.

Overload protection, thermal switch and over current protection circuit.

Power adjustment feature (10%-100%).

**ULTRASONIC GENERATORS**

	FREQUENCY	ULTRASONIC POWER Watt
MBL N- GN 750-128 MBL N- GN 750-140	28 kHz 40 kHz	1500 <sub>peak</sub> /750 <sub>eff</sub>
MBL N- GN 1000-128 MBL N- GN 1000-140	28 kHz 40 kHz	2000 <sub>peak</sub> /1000 <sub>eff</sub>
MBL N- GN 1500-128 MBL N- GN 1500-140	28 kHz 40 kHz	3000 <sub>peak</sub> /1500 <sub>eff</sub>
MBL N- GN 2000-228 MBL N- GN 2000-240	28 kHz 40 kHz	4000 <sub>peak</sub> /2000 <sub>eff</sub>

**ULTRASONIC MODULES**

MODEL	FREQUENCY
MBL N- TR 750- 28 MBL N- TR 750- 40	28 kHz 40 kHz
MBL N- TR 750- 28 MBL N- TR 750- 40	28 kHz 40 kHz
MBL N- TR 1000- 28 MBL N- TR 1000- 40	28 kHz 40 kHz
MBL N- TR 1000- 28 MBL N- TR 1000- 40	28 kHz 40 kHz
MBL N- TR 1000- 28 MBL N- TR 1000- 40	28 kHz 40 kHz
MBL N- TR 1500- 28 MBL N- TR 1500- 40	28 kHz 40 kHz
MBL N- TR 1500- 28 MBL N- TR 1500- 40	28 kHz 40 kHz
MBL N- TR 2000- 28 MBL N- TR 2000- 40	28 kHz 40 kHz
MBL N- TR 2000- 28 MBL N- TR 2000- 40	28 kHz 40 kHz

ESP series are designed for efficient cleaning of industrial parts with pressurized hot water plus a biodegradable detergent. The ESP range has very low operating cost and consumption, the body and structure is made entirely of corrosion free stainless steel material and heavy duty components. This type of machine is correct choice for cleaning oil, grease, production residues off the surface of parts and anticorrosive protection applications. The ESP range of spray washers are supplied with a stainless steel pump, nozzles, heaters and motorised basket as standard features.

- Top opening gas spring assisted machine lid.
- Motorised stainless steel component basket.
- Stainless steel spray bar assemblies above, below and at the side.
- Integral fluid filtration system.
- Basket jog feature.
- Chemical & corrosion resistant stainless steel pump.
- Electrical powered fluid heating.



### TECHNICAL DETAILS

MODEL	PROCESS	BASKET DIAMETER	LOADING WEIGHT	LOADING HEIGHT	EXTERNAL DIMENSIONS				TANK CAPACITIES	PUMP RATE	PUMP PRESSURE	HEATING
					WIDTH	LENGTH	HEIGHT (LID CLOSED)	HEIGHT (LID OPEN)				
		mm	kg	mm	mm	mm	mm	mm	lt	lt/min	bar	kW
ESP-60	Washing	600	80	300	755	1000	1150	1550	50	60	1.5	4
ESP-82	Washing	820	150	400	950	1250	1250	1750	120	120	2	4
ESP-82-R	Washing	820	150	360	950	1250	1250	1750	120	120	2	4
ESP-105	Washing	1050	200	500	1250	1500	1350	2000	220	140	3	7.5
ESP-105-R	Washing	1050	200	460	1250	1500	1350	2000	220	140	3	7.5
ESP-125	Washing	1250	300	640	1500	1800	1600	2400	450	190	3.2	15
ESP-125-R	Washing	1250	300	600	1500	1800	1600	2400	450	190	3.2	15
ESP-140	Washing	1400	300	650	1650	2050	1700	2650	550	250	3.3	22.5
ESP-140-R	Washing	1400	300	600	1650	2050	1700	2650	550	250	3.3	22.5



SprayClean systems are designed to clean parts automatically with pressurized hot water plus a biodegradable detergent. SprayClean machines are front loading systems and have tank heating insulation, vapour extraction and pneumatic control door as standard features. Rinsing and drying processes can also be added to this model meaning the whole process of washing, rinsing and drying can be completed in the same location. Multiple systems are controlled via PLC control in the main control panel. The SprayClean also comes with a large range of optional accessories from oil skimmers, oil separators, filtration units, tank discharge pumps, loading/unloading carts, cabin insulation and many more.

- Pneumatically powered vertical opening front access door.
- Heavy duty stainless steel mesh motor driven component basket.
- Integral fluid filtration system.
- Corrosion resistant spray jets.
- Chemical & corrosion resistant stainless steel pump.
- Microprocessor or PLC controlled.
- Electrical powered fluid heating.
- Optional double skinned fluid tanks with 20mm thick insulation.



## TECHNICAL DETAILS

MODEL	PROCESS	BASKET DIAMETER	LOADING WEIGHT	LOADING HEIGHT	EXTERNAL DIMENSIONS				TANK CAPACITIES	PUMP RATE	PUMP PRESSURE	HEATING
					WIDTH	LENGTH	HEIGHT (LID CLOSED)	HEIGHT (LID OPEN)				
		mm	kg	mm	mm	mm	mm	mm	lt	lt/min	bar	kW
SPRAYCLEAN W	Washing	SprayClean 90-W	300	500	1400	1550	2050	2700	250	140	3	7.5
		SprayClean 120-W	450	650	1750	1950	2150	2900	400	190	3.2	15
		SprayClean 150-W	600	750	2100	2400	2400	3400	550	250	3.3	22.5
		SprayClean 180-W	800	900	2400	2700	2600	3800	700	320	4	22.5
SPRAYCLEAN WR	Washing Rinsing	SprayClean 90-WR	300	500	1900	1550	2050	2700	250/180	140/120	3/2	7.5/7.5
		SprayClean 120-WR	450	650	2250	1950	2150	2900	400/250	190/140	3.2/3	15/7.5
		SprayClean 150-WR	600	750	2100	3000	2400	3400	550/360	250/190	3.3/3.2	22.5/15
		SprayClean 180-WR	800	900	2400	3300	2600	3800	700/450	320/250	4/3.3	22.5/15
SPRAYCLEAN WRD	Washing Rinsing Drying	SprayClean 90-WRD	300	500	1900	1550	2200	2700	250/180	140/120	3/2	7.5/7.5/9
		SprayClean 120-WRD	450	650	2250	1950	2300	2900	400/250	190/140	3.2/3	15/7.5/12
		SprayClean 150-WRD	600	750	2100	3000	2600	3400	550/360	250/190	3.3/3.2	22.5/15/18
		SprayClean 180-WRD	800	900	2400	3300	2800	3800	700/450	320/250	4/3.3	22.5/15/24

TunClean washing systems are best suited for cleaning parts with a simple basic shape (flat surfaces, without blind holes) where accurate positioning in the active areas is not so necessary. TunClean machines can include pre-washing with spraying water plus a chemical detergent, washing with spraying water plus a chemical detergent, rinsing with spraying water and drying with hot air. The design, configuration and number of washing stages in the tunnel can be customized to suit to customer's exact specifications and requirements. In the case of a tunnel with a conveyor belt, the components are loaded on to a conveyor (mesh or bars type) which conveys the pieces through the different steps of the cleaning process. The pieces are generally conveyed on a line conveyor system and the speed of conveyor can be adjusted by the machine operator.



### Operating Details

In TunClean systems the pieces are automatically transferred from stages to stage by a conveyor which passes through a tunnel until the cleaning process is completed. Generally pieces are first transferred to the washing section, once washing is completed the pieces are transferred to the rinsing section to remove the remaining chemical detergent residues that was used in the washing section. Transfer to the drying unit will usually follow to dry the remaining water from the pieces with hot air. Any combination of processes can be included to suit your needs. A number of optional accessories can also be included which include filtration and oil separators and many more.

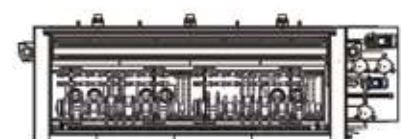
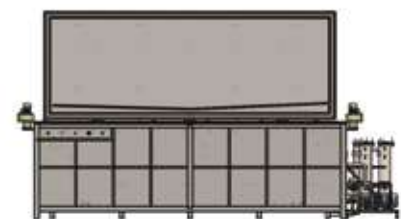


TECHNICAL DETAILS

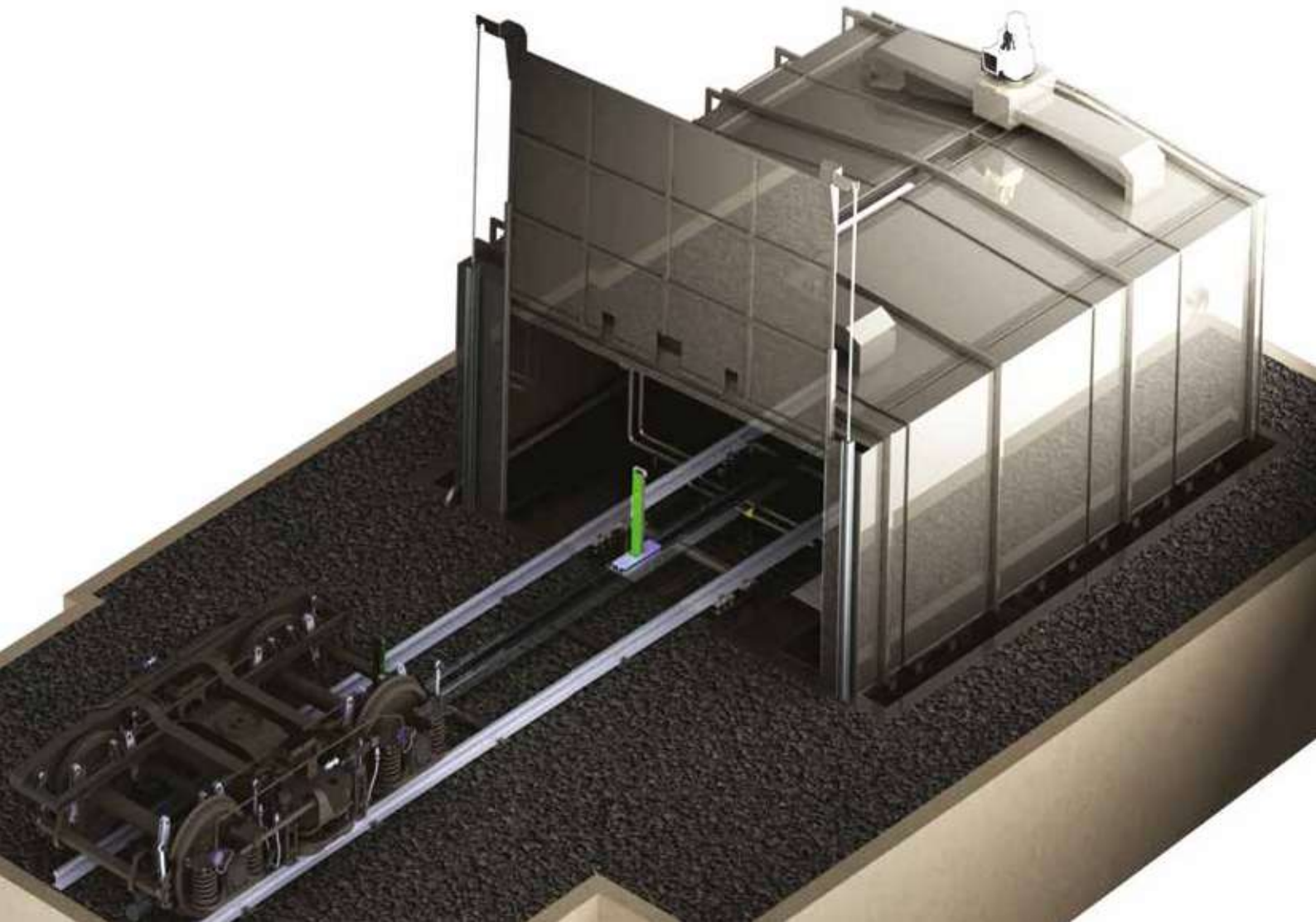
	MODEL	PROCESS	LOADING WIDTH	LOADING HEIGHT	EXTERNAL DIMENSIONS			TANK CAPACITY	PUMP RATE	PUMP PRESSURE	HEATING POWER
					LENGTH	WIDTH	HEIGHT				
			mm	mm	mm	mm	mm	lt	lt/min	bar	kW
TUNCLEAN	TUNCLEAN 320-W	Washing	300	200	2300	1250	2050	250	120	2	7,5
	TUNCLEAN 425-W		400	250	2500	1400	2100	350	140	3	15
	TUNCLEAN 530-W		500	300	2600	1500	2200	450	190	3,2	15
	TUNCLEAN 640-W		600	400	2750	1600	2350	600	250	3,3	22,5
	TUNCLEAN 850-W		800	500	3000	1850	2600	800	300	4	30
TUNCLEAN WR	TUNCLEAN 320-WR	Washing Rinsing	300	200	3800	1250	2050	250/150	120/60	2/1,5	7,5/6
	TUNCLEAN 425-WR		400	250	4200	1400	2100	350/250	140/120	3/2	15/7,5
	TUNCLEAN 530-WR		500	300	4450	1500	2200	450/350	190/140	3,2/3	15/15
	TUNCLEAN 640-WR		600	400	4750	1600	2350	600/450	250/190	3,3/3,2	22,5/15
	TUNCLEAN 850-WR		800	500	5300	1850	2600	800/600	300/250	4/3,3	30/22,5
TUNCLEAN WRD	TUNCLEAN 320-WRD	Washing Rinsing Drying	300	200	5500	1250	2050	250/150	120/60	2/1,5	7,5/6/9
	TUNCLEAN 425-WRD		400	250	6100	1400	2100	350/250	140/120	3/2	15/7,5/12
	TUNCLEAN 530-WRD		500	300	6550	1500	2200	450/350	190/140	3,2/3	15/15/18
	TUNCLEAN 640-WRD		600	400	7000	1600	2350	600/450	250/190	3,3/3,2	22,5/15/24
	TUNCLEAN 850-WRD		800	500	7800	1850	2600	800/600	300/250	4/3,3	30/22,5/36
TUNCLEAN PWRD	TUNCLEAN 320-PWRD	Pre Washing Washing Rinsing Drying	300	200	7000	1250	2050	150/250/150	60/120/60	1,5/2/1,5	6/7,5/6/9
	TUNCLEAN 425-PWRD		400	250	7800	1400	2100	250/350/250	120/140/120	2/3/2	7,5/15/7,5/12
	TUNCLEAN 530-PWRD		500	300	8400	1500	2200	350/450/350	140/190/140	3/3,2/3	15/15/15/18
	TUNCLEAN 640-PWRD		600	400	9000	1600	2350	450/600/450	190/250/190	3,2/3,3/3,2	15/22,5/15/24
	TUNCLEAN 850-PWRD		800	500	10100	1850	2600	600/800/600	250/300/250	3,3/4/3,3	22,5/30/22,5/36

# PROJECT MACHINES

Special tailor made project machines are prepared together with our customers when a special non-standard design is required. Technical manufacturing drawings are prepared with the use of 3D CAD software Solidworks program. Drawings are then sent to the customer before production begins for final technical approval. During the manufacturing of the machinery customers are invited to our factory once their orders are complete to inspect the machinery before shipment. Our expert mechanical and electrical technician personnel will do the installation of the machine.



# PROJECT MACHINES



# COMBOCLEAN

## MULTIPLE WASH PROCESSES

ComboClean systems have been specifically designed to meet the high and precision batch cleaning demands of small massed produced parts. The cleaning process works by placing contaminated parts inside a special basket which then rotates within the specially designed cleaning chamber. The basket rotation feature allows for the contaminated parts to be cleaned with both pressurised aqueous cleaning fluid as well as providing agitation during both the spray washing and flood washing stages as the chamber is filled with cleaning fluid. Ultrasonic cleaning capability can also be added to the ComboClean washing chamber with the use of ultrasonic rod transducers. As the whole cleaning process is complete within the single wash chamber there is no need to remove the basket between stages to different locations making the ComboClean an extremely efficient and versatile cleaning machine.

- Machine constructed entirely of stainless steel.
- Standard configurations offer washing, rinsing & drying.
- Additional passivation or additional rinsing available.
- Optional ultrasonic washing capability.
- Fine particle filtration through Cartridge & bag filtration.
- Available with vacuum drying option.
- Cleaning & drying process completed in a vacuum proof chamber.
- Available with manual & automatic basket loading.
- Basket rotation aides cleaning & drying effectiveness.
- Integrated tank flow filtration.
- Optional oil separators options.
- Siemens PLC control system for programming and error diagnosis.
- Closed system housing with maintenance doors for optimum access & compact design.



## TECHNICAL DETAILS

	ComboClean 75	ComboClean 150	ComboClean 300
Basket Dimension	580*320*200mm	700*450*300mm	1000*600*400mm
Max Loading Weight	75kg	150kg	300kg
External Dimensions	2650*1750*2000mm	3400*2100*2200mm	4100*2300*2450mm
Wash/Rinse Tank Volume	400/250 Litres	550/350 Litres	700/450 Litres
Wash/Rinse Pump Rate	190/140 Litres	250/190 Litres	300/250 Litres
Wash/Rinse Pump Pressure	3.0/3.0 Bar	3.0/3.0 Bar	4.0/3.0 Bar
Heating Power	34.5kW	55.5kW	61.5kW
Batch Throughput (cycle/hour)	6.0/12.0	6.0/12.0	

# OUR REFERENCES

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Tarom Technic

Smith Detection

Saint Gobain

BAE Systems

Alstom

Bosch

Total

Caterpillar

Dresser-Rand

Dunlop

Husqvarna

ABB

Airbus

Turkish Airlines

Michelin

Senior Aerospace

General Electric

Bombardier Aerospace

Volvo

Rolls Royce

Renault

Ford

Delphi Diesel Systems

Lisi Automotive

Raal Radiatore

TRW Automotive

Coca Cola

Philip Morris

FTA

Nissan

S.N.F.C

Vattenfall

Continental

KLM Royal Dutch Airlines

Fooker Aerostructures

FN Herstal

Haribo

Enertech

Siemens

Mercedes-Benz

SEW Eurodrive

MTU Motor

P&G

Man Euro Dizel

Hitachi



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