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MACHEM PRODUCT CATALOGUE

Industrial Cleaning Machines

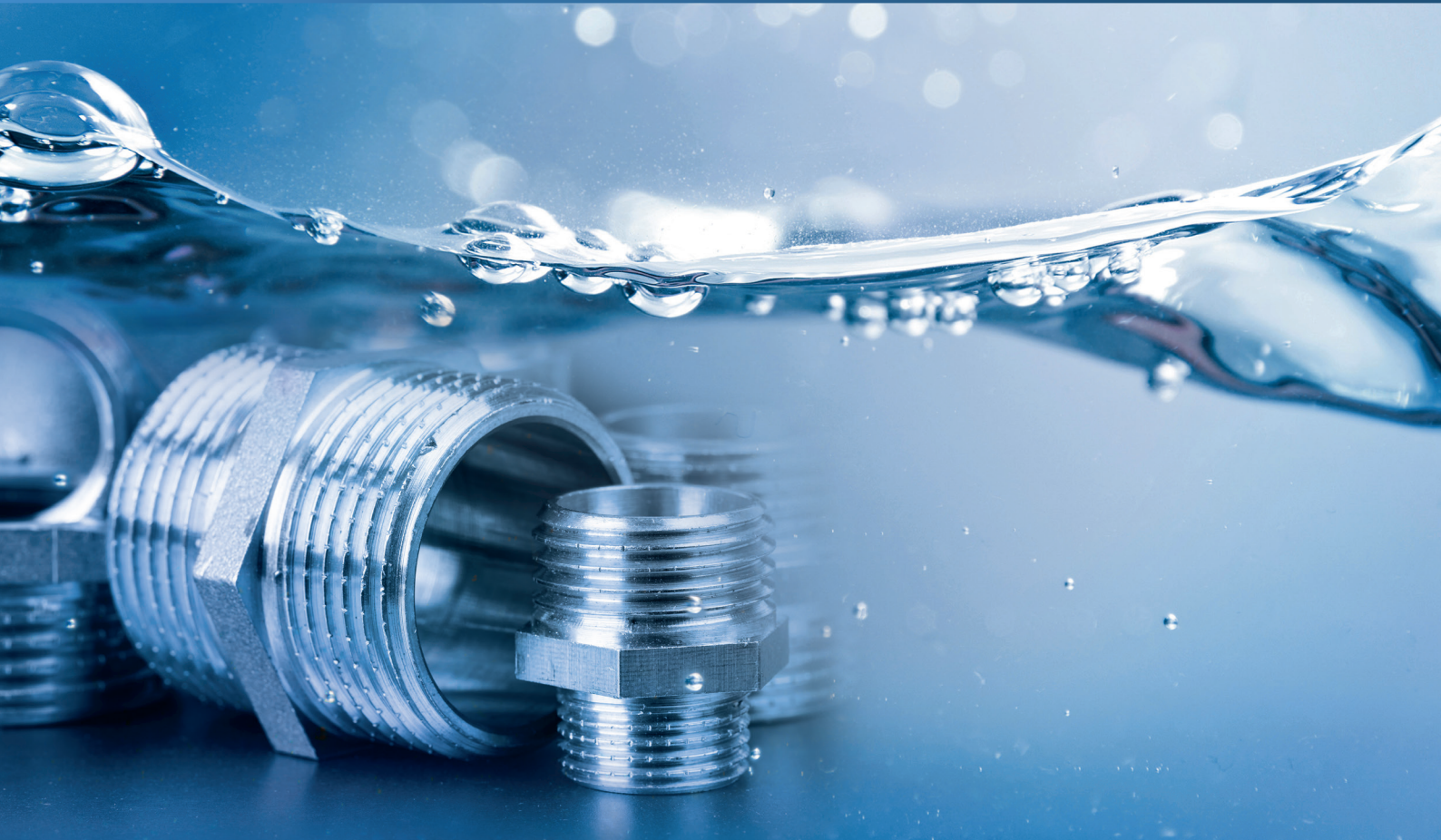
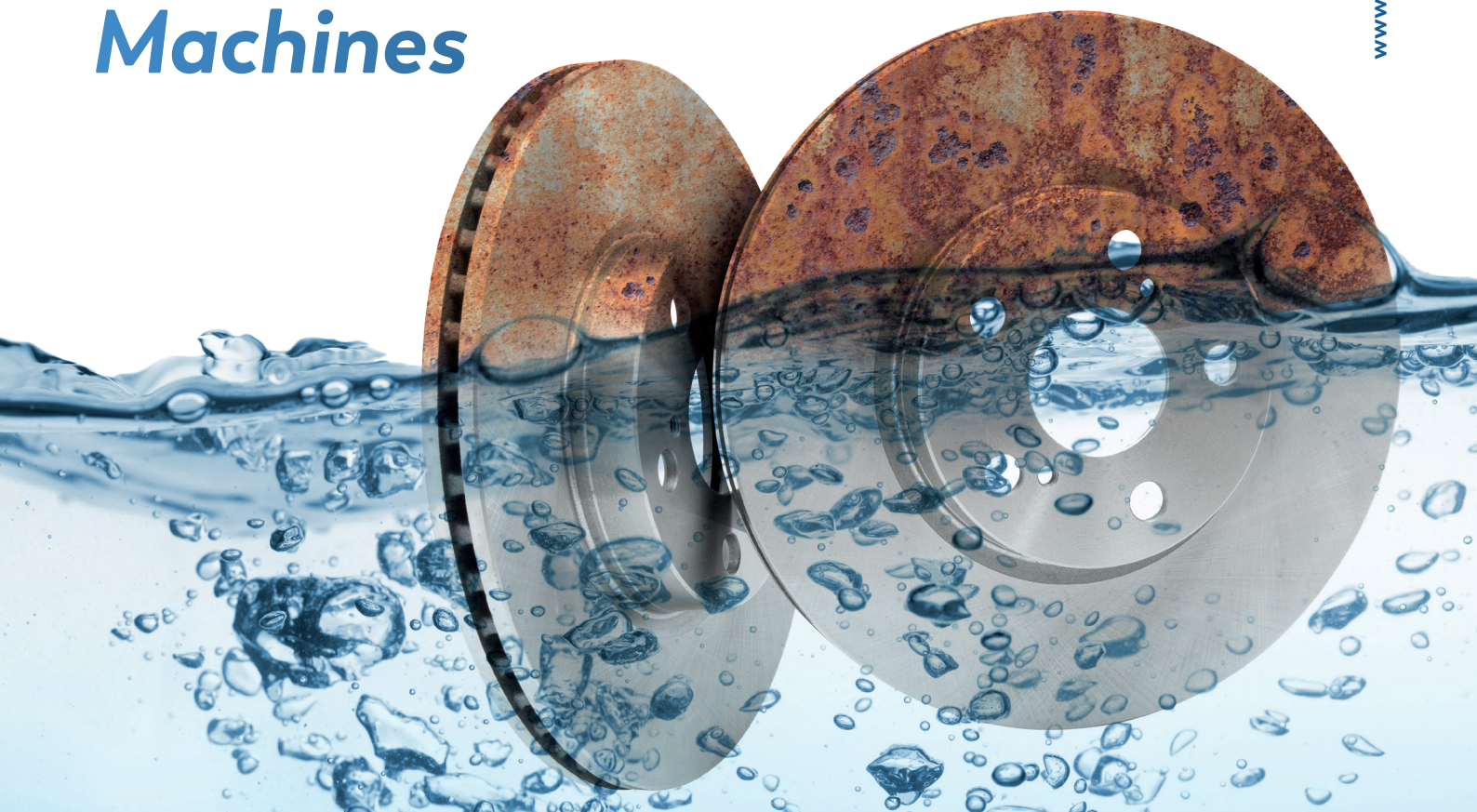




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Industrial Cleaning Machines



ABOUT US

Established in 2017 within the body of Celal Bayar University innovation centre, MACHEM® offers special solutions to the problems of the sector with its head office in Manisa Teknokent, as well as its integrated production facility in İzmir AOSB.

MACHEM®, blends the expertise with knowledge comes from industrial cleaning and industrial lubricant sector expertise.

MACHEM® not only offers its partners machines; knows that a good machine is possible with good service and the right process. In addition,

with its business partners in all processes with professional and technical support team.

MACHEM®; Since its establishment, it offers solutions with its machines specially designed for the needs of many sectors with its competitive and innovative engineering power in the sector.





• Metal Processing

After machining or chipless manufacturing, copper, aluminum, steel, zamak etc. parts paint etc. Our cleaning machines are used for cleaning before the processes.

• PVD Coating

In order for the coating to be done with the desired performance, the parts need sensitive cleaning. In order to provide this delicate cleaning, especially our ultrasonic cleaning line and mono chamber machines are used.

• Textile Sector

Our cleaning machines are used so that the equipment in the textile production machines can continue to produce in a healthy way.

• Heavy Industry

In the industry, it is as important as production and maintenance and repair. Our cleaning machines are used for the maintenance and repair of machine parts, equipment, filters and molds in production facilities.

• Plastic Industry

Our cleaning machines are used in the maintenance and repair of extruder and injection machine equipment and molds.

• Maintenance Sector

Generally, our cleaning machines are used for cleaning the solder paste in the PCB board circuits or for cleaning the dirt on the PCB board for maintenance purposes.

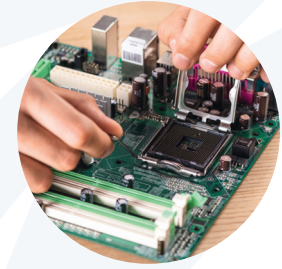
• Jewelry & Jewellery

Generally, machines are designed for surface cleaning of jewelry pieces after polishing. At the same time, polishing, cleaning, etc. of the products available in jewelry outlets. Our cleaning machines are used for maintenance processes.

• Aerospace Sector

Our cleaning machines are used for maintenance processes in the production and post-production period of aviation industry parts where extreme cleaning conditions expected.

SECTORS



• Automotive Industry

Our cleaning machines are used in the production of parts, maintenance and repair processes in the automotive sector.

• Lab Materials

Performing various experiments in the laboratory environment, accelerating chemical reactions, etc. Our cleaning machines are used to perform the cleaning simulations of the parts without the need to set up a facility in the processes.

• Defense Industry

Our cleaning machines are used for maintenance processes in the production and post-production period of aviation industry parts where extreme conditions are expected.

• Medical Products

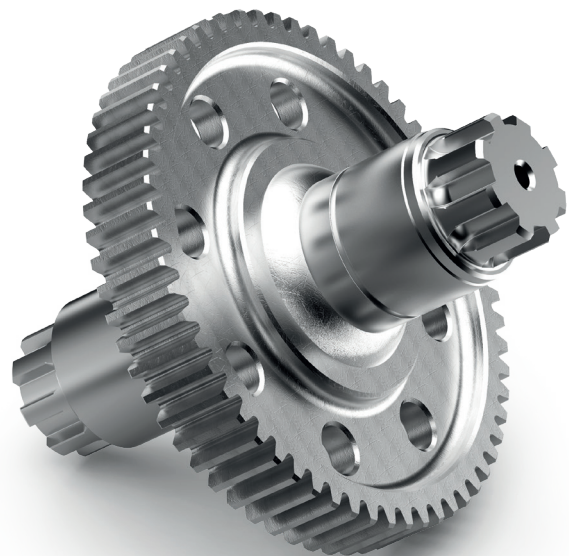
Implants, surgical instruments, etc. precision cleaning effective in cleaning the parts needed effective in cleaning the parts needed.

• Optical Materials

Eyeglass, optical lens, etc. Our cleaning machines are used effectively in the cleaning of parts that need sensitive cleaning.

• Kitchenware

Our cleaning machines are used effectively before coating and painting products such as forks, knives, pots, pans, teapots and sinks.



DT SERIES

ULTRASONIC CLEANING MACHINES



MACHEM DT series products are available in 4 different capacities as standard. Wash tub and outer panel of MACHEM DT series are made of stainless steel. And the DT series are widely used in industries such as jewellery, laboratory, optics and medical.

MACHEM designs machines suitable for the process and processes according to the dirt of the part to be cleaned. The ultrasonic effect and the correct temperature value of the cleaning baths are determined in the R&D laboratory

according to the type of material to be cleaned and the degree of pollution. 28 kHz and 40 kHz frequencies are also available.

Options;

- Basket / Types of fixtures
- Beaker System
- Oscillating System
- Adjustable Ultrasonic Effect

MODEL	DT-6	DT-12	DT-18	DT-30
Capacity	6L	12L	18L	30L
Boiler Size	300x151xh:150	300x240xh:200	330x300xh:200	505x300xh:200
Basket Size	250x110xh:100	230x170xh:150	250x230xh:150	410x245xh:150
External Dimensions	430x176xh:410	430x265xh:460	460x325xh:460	630x325xh:460
Ultrasonic Effect	180 W	240 W	300 W	480 W
Frequency	40 kHz	40 kHz	40 kHz	40 kHz
Heat	0-80 °C	0-80 °C	0-80 °C	0-80 °C
Heater Power	300 W	800 W	800 W	1500 W
Power Source	220/240V, 50 Hz	220/240V, 50 Hz	220/240V, 50 Hz	220/240V, 50 Hz

The products may not match exactly with the images in the catalogue. The company is free to change the technical specifications.

MACHINES



DT-M SERIES

ULTRASONIC CLEANING MACHINES



MACHEM DT-M series products are available in 4 different capacities as standard. Wash tub and outer panel of MACHEM DT-M series are made of stainless steel. And the DT-M series are widely used in industries such as metalworking, automotive sub-industry, defense industry, jewellery, laboratory, optics and medical.

MACHEM designs machines suitable for the process and processes according to the dirt of the part to be cleaned. The ultrasonic effect and the correct temperature value of the cleaning baths are determined in the R&D laboratory

according to the type of material to be cleaned and the degree of pollution. 28 kHz and 40 kHz frequencies are also available.

Options;

- Basket / Types of fixtures
- Beaker System
- Oscillating System
- Adjustable Ultrasonic Effect

MODEL	DT-M 15	DT-M 25	DT-M 40	DT-M 50
Capacity	15 L	25 L	40 L	50 L
Boiler Size	350x220xh:200	420x300xh:200	500x400xh:200	600x420xh:200
Basket Size	290x160xh:150	360x240xh:150	440x340xh:150	540x360xh:150
External Dimensions	560x430xh:460	630x510xh:460	710x610xh:460	710x630xh:460
Ultrasonic Effect	300 W	480 W	720 W	960 W
Frequency	40 kHz	40 kHz	40 kHz	28 & 40 kHz
Heat	0-80 °C	0-80 °C	0-80 °C	0-80 °C
Heater Power	800 W	1200 W	1500 W	2250 W
Power Source	220/240V, 50 Hz	220/240V, 50 Hz	220/240V, 50 Hz	220/240V, 50 Hz

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MD SERIES

ULTRASONIC CLEANING MACHINES

MACHEM MD series products are available in 4 different capacities as standard. Wash tub and outer panel of MACHEM MD series are made of stainless steel. And the MD series are widely used in industries such as metalworking, automotive sub-industry, defense industry, jewellery, laboratory, optics and medical.



MACHEM designs machines suitable for the process and processes according to the dirt of the part to be cleaned. The ultrasonic effect and the correct temperature value of the cleaning baths are determined in the R&D laboratory according to the type of material to be cleaned and the degree of pollution.

Options;

- Extendable Resistance
- Filtration
- Oil Skimmer

MODEL	MD 60	MD 90	MD 135	MD 180
Capacity	60 L	90 L	135 L	180 L
Boiler Size	325x400xh:420	400x500xh:420	450x600xh:450	500x650xh:500
Basket Size	270x340xh:380	345x440xh:380	405x540xh:410	455x590xh:460
External Dimensions	580x675xh:990	615x730xh:1030	665x830xh:1030	714x880xh:1140
Ultrasonic Effect	900 W & 1200 W	1500 W	2000 W	3000 W
Frequency	28/40/80/120 kHz	20/40/80/120 kHz	20/40/80/120 kHz	20/40/80/120 kHz
Heat	0-80 °C	0-80 °C	0-80 °C	0-80 °C
Heater Power	2000 W	3000 W	6000 W	6000 W
Power Source	220/240V, 50 Hz	220/240V, 50 Hz	220/240V, 50 Hz	220/240V, 50 Hz

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MACHINES



ECO SERIES

ULTRASONIC CLEANING LINES



MACHEM ECO series products are available in 4 different capacities as standard. Wash tub and outer panel of MACHEM ECO series are made of stainless steel. And the ECO series are widely used in industries such as metal working, automotive sub-industry, defense industry, jewellery, laboratory, optics and medical.

MACHEM designs machines suitable for the process and processes according to the dirt of the part to be cleaned. The ultrasonic effect and the correct temperature value of the cleaning baths are determined in the R&D laboratory

according to the type of material to be cleaned and the degree of pollution.

Opsiyonlar;

- Oscillating System
- Basket and Fixture Design
- Automatic Filling
- Heated Rinsing System
- Filtration
- Oil Skimmer

***Below is the table of ultrasonic cleaning machines with a volume of 40L. Special production is made in desired specifications and sizes upon request**

MODEL	ECO 40 1.1.0	ECO 40 1.2.0	ECO 40 2.3.0	ECO 40 2.3.0 S
Process Configuration	US/D	US/D/D	US/D/US/D/D	US*/D*/US*/D*/D*
Capacity	40 L	40 L	40 L	40 L
Boiler Size	310x400xh:390	310x400xh:390	310x400xh:390	310x400xh:390
Basket Size	255x355xh:350	255x355xh:350	255x355xh:350	255x355xh:350
External Dimensions	890x670xh:1000	1280x670xh:1000	2080x670xh:1000	1880x670xh:1000
Ultrasonic Effect	960/1200 W	960/1200 W	960/1200 W	960/1200 W
Frequency	40 kHz	28 & 40 kHz	28 & 40 kHz	28 & 40 kHz
Heat	0-80 °C	0-80 °C	0-80 °C	0-80 °C
Heater Power	2000 W	2000 W	2000 W	2000 W
Power Source	220/240V, 50 Hz	220/240V, 50 Hz	220/240V, 50 Hz	220/240V, 50 Hz

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US Ultrasonic Wash

D Rinsing

* Oscillation

HAD SERIES

HOT AIR DRYERS

MACHEM ECO series products are available in 4 different capacities as standard. MACHEM ECO series are widely used in industries such as metalworking, automotive sub-industry, defense industry, jewellery, laboratory, optics and medical.

The drying process takes the same time as the cleaning and rinsing process. If the cleaned parts are dried quickly, production costs and processes

are reduced. Drying lines with modular structure can be extended or shortened. Machines work separately from each other. For that reason cleaning line is always active.



MODEL	HAD 60	HAD 90	HAD 135	HAD 180
Capacity	60 L	90 L	135 L	180 L
Boiler Size	325x400xh:465	400x500xh:465	450x600xh:495	500x650xh:545
Basket Size	270x340xh:380	345x440xh:380	405x540xh:410	455x590xh:460
External Dimensions	700x675xh:990	775x730xh:1030	825x830xh:1030	875x880xh:1140
Fan Flow	1800 m ³ /h	1800 m ³ /h	1800 m ³ /h	2900 m ³ /h
Maximum Load	25 KG	50 KG	70 KG	80 KG
Heat	0-100 °C	0-100 °C	0-100 °C	0-100 °C
Heater Power	2000 W	2000 W	3000 W	3000 W
Power Source	220/240V, 50 Hz	220/240V, 50 Hz	220/240V, 50 Hz	220/240V, 50 Hz

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MACHINES

SP SERIES SPRAY CLEANING MACHINES



MACHEM® SP standard products are available in 4 different capacities. There is only a cleaning chamber in the standard series. In the RSP cooler, it contains double chambers for rinsing and cleaning. In line with the needs of the customers, a two-stage cleaning process can be realized.

MACHEM® SP category is in high demand in metalworking, automotive sub-industry, defense industry, aviation, jewelry and many different sectors.

Opsiyonlar;

- Basket / Fixture types
- Double Chamber System (Wash/Rinse)
- Oil Skimmer
- Heating Power
- Carriage-Loading Trolley
- Tube Filter System
- Cabin Steam Intake System
- Drying

MODEL	SP 650	SP 850	SP 1100	SP 1350	SP MULTICLEAN
Capacity	100 L	130 L	260 L	350 L	2x 120 L
Basket Diameter	650 mm	850 mm	1100 mm	1350 mm	850 mm
Max Load Weight	100 KG	200 KG	300 KG	400 KG	200 KG
Inner Height	300 mm	350 mm	410 mm	650 mm	350 mm
Spray Pressure	2,5 - 3 Bar	2,5 - 3 Bar	3,5 - 4 Bar	3,5 - 4 Bar	2,5 - 3 Bar
Heat	0-85 °C	0-85 °C	0-85 °C	0-85 °C	0-85 °C
Heater Power	7500 W	7500 W	9000 W	2x7500 W	2x7500 W
Power Source	380 V, 50 Hz	380 V, 50 Hz	380 V, 50 Hz	380 V, 50 Hz	380 V, 50 Hz

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MF SERIES

MANUEL BRUSH CLEANING MACHINES

MACHEM® MF standard products are available in 2 different capacities. MACHEM® MF category is in high demand in many different sectors such as metal processing, automotive sub-industry, defense industry, aviation, jewelery industry.

It allows cleaning all kinds of surfaces and parts with its specially designed flow brush. It has a cleaning table suitable for cleaning different part sizes.



MODEL	MF-70	MF-100
Capacity	70 L	100 L
Max Load Weight	100 KG	120 KG
Heat	50 °C	50 °C
Heater Power	2 KW	3 KW
External Dimensions	1030x700xh:1350	1120x770xh:1350
Cleaning Area Dimensions	960x630xh:400	1050x700xh:450
Pump Pressure	0,5 - 1,5 Bar	0,5 - 1,5 Bar
Flow	10 - 40 Lt/Dk	10 - 40 Lt/Dk

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MACHINES



BOS SERIES

OIL SKIMMER SYSTEMS



The longevity of the cleaning baths is very important for both operating costs and ecological balance. In order to solve these problems, MACHEM® designed oil skimmer systems that can be used as integrated or stand-alone machines in order to extend their bath life. Special skimmer design can be made according to the customer process. The degreasing capacities in the table may vary according to the amount of oil and the temperature of the liquid it works with;

- MACHEM Oil Skimmers are produced from long-lasting belts that are resistant to chemicals such as boron oil, cutting oil, alkali chemicals.
- Thanks to the oil skimmers, the life of the bath is extended, the amount of chemical consumption and the amount of waste are reduced. Thus, the damage to the environment is also reduced.
- Production capacity increases, cleaning period is extended, labor is reduced. Thus, the quality of the cleaned product increases.

Below is a sample belt type oil skimmer table. On request, special production is made in different belt sizes and different capacities for your bathrooms.

MODEL	BOS 3	BOS 4	BOS 5	BOS 6
Degreasing Its capacity	3-4 L/H	3-4 L/H	4-5 L/H	5-6 L/H
Surface Access	270-340 mm	300-350 mm	300-930 mm	70-190 mm
Band Width	55 mm	28 mm	28 mm	40 mm
Option	Transfer/ Belt Dimensions	Transfer/ Belt Dimensions	Transfer/ Belt Dimensions	Transfer/ Belt Dimensions
Power Source	220/240V, 50 Hz	220/240V, 50 Hz	220/240V, 50 Hz	220/240V, 50 Hz

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OSC SERIES

OSCILLATION SYSTEMS



In addition to the cleaning performance of the machines, the cleaning time is also very important for businesses. MACHEM® OSC systems are systems that provide effective cleaning of parts in a short time and provide maximum cleaning performance. Special design fixtures can be designed in line with the demands of the customers, as well as working with standard cleaning baskets. Ultrasonic effect is provided on many surfaces of the parts to be washed with MACHEM® OSC systems.

In this way, an effective cleaning is provided in a shorter time; saves time and energy. In this way, an effective cleaning is provided in a shorter time; saves time and energy.

Opsiyonlar;

- Basket / Fixture types
- Adjustable Swing Speed
- Special Design for Machines

MODEL	OSC 6	OSC 12	OSC 18	OSC 30
Basket Size	240x91xh:100	240x180xh:150	240x180xh:150	445x240xh:150
Swing Distance	25 mm	30 mm	30 mm	30 mm
Max Load Weight	2-2,5 KG	4-5 KG	5-6 KG	8-9 KG
Oscillation Rate	0-60 rpm	0-60 rpm	0-60 rpm	0-60 rpm
Power Source	220/240V, 50 Hz	220/240V, 50 Hz	220/240V, 50 Hz	220/240V, 50 Hz

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