

# Vibratory and Centrifugal Surface Finishing Machinery and Systems

Round and Trough  
Vibratory Machines



Continuous and  
Linked Automation  
Systems



Centrifugal Disc  
Finishing Machines



Vibratory Drying,  
Centrifugal Drying  
and Centrifugal  
Degreasing Machines



Process water  
Recycling Systems



Consumables

- Ceramic chips
- Plastic chips
- Liquid, paste and powder compounds
- Granules
- Inox stainless steel balls and pins



## About Kromaş:

The pioneering that Kromaş has started on surface processing machinery is continued by means of developing new systems and technologies and availing them to the industry.

Kromaş products are used at more than 7000 facilities in 75 countries in 5 continents.

More than 3000 surface processes developed by Kromaş are being successfully implemented, without alternatives.

Other than providing the customers with successful results, the systems, machinery and process solutions offered by Kromaş also provides high productivity, lower costs and competitive advantage.

Many projects of Kromaş, which has an advanced R&D infrastructure, are supported by TÜBİTAK – TİDEP, TTGV, KOSGEB and EUREKA.

Kromaş has the ISO 9001:2000 quality management system certification. Kromaş products bear the CE marking, and TSE-EN norms and standards are applied during their production. Furthermore, Kromaş can also produce in compliance with the standards of other countries, which apply different standards.

Kromaş's exemplary technical solutions are being monitored and used by many companies.

## PRODUCTS:

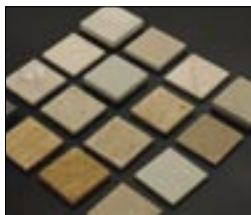
- Round Vibratory Machines
- Trough Vibratory Machines
- Centrifugal Disc Finishing Machines
- Vibratory Drying Machines
- Centrifugal Drying Machines
- Centrifugal Degreasing Machines
- Surface Finishing Automation Systems
- Processes Water Recycling Systems
- Industrial Waste Water Treatment Machines and Systems
- Thermo-Diffusion Zinc Coating Systems
- Surface Ageing (Antique) Machines for Natural Stones
- Mosaic Double Face Ageing (Antique) Machines for Natural Stones
- Mosaic and Tile-Strip Netting Machines for Natural Stones
- Rounding Machines for Natural Stones
- Washing and Drying Systems for Natural Stones
- Tile-Strip and Slab Reinforcement & Surface Filling Automation Systems



Alongside the machines production, all of such surfaces processing materials as the ceramic abrasives, plastic abrasives, chemical compounds, abrading pastes and powders, granules and stainless steel balls that are used in these machines are produced in Kromaş facilities at high quality.

PLEASE CONTACT US FOR CONSULTATION,  
SAMPLE ANALYSIS AND CUSTOMIZED  
PROCESSING DEVELOPMENT.





Round Vibratory Machines	4-7
Trough Vibratory Machines	8-10
Centrifugal Disc Finishing Machines	11-13
Round Vibratory Drying Machines	14-15
Centrifugal Drying and Degreasing Machines	16
Other Drying Machines	17
Other Machines, Equipments and Systems	18-19
Process Water Recycling Systems	20-21
Other Systems	22
KROM-X Process	23

THESE ARE THE BEST SURFACE FINISHING MACHINES DEVELOPED  
IN THEIR CLASS THAT ENABLE HIGH SPEED, HIGH CAPACITY AND  
STANDARD QUALITY PROCESSING OF PRODUCTION PARTS.

**MACHINE MODELS**

VM 20, VM 125, VM 250, VM 500, VM 800, VM 1000, VRM 2000, VM 4000



**VM 125**  
Capacity: 125 liter



**VM 250**  
Capacity: 250 liter



**VM 500, VM 800**  
Capacity: 500, 800 liter



**VM 1000**  
Capacity: 1000 liter

OUR MACHINERY, WHICH ARE SPECIALLY DESIGNED TO PERFORM SURFACE FINISHING IN THE BEST POSSIBLE MANNER PURSUANT TO PROCESS FEATURES, ARE DIVIDED INTO DIFFERENT VERSIONS AMONG THEMSELVES.



**VRM 2000**  
Capacity: 2000 liter

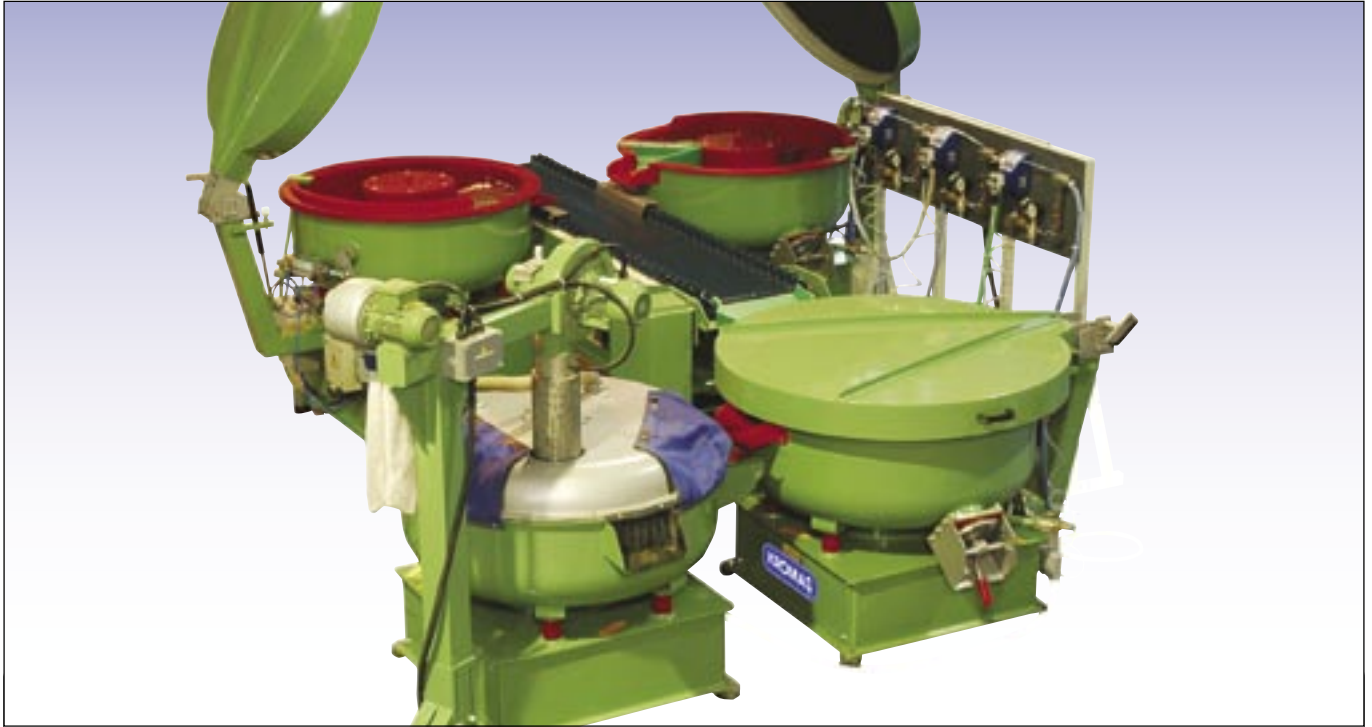


**VM 4000**  
Capacity: 4000 liter



**ATC 200 & TNL 4000**  
Spiral Continuous Finishing System & Tunnel Drying Machine

MANUAL OR AUTOMATIC CONTROL SYSTEMS  
FOR SURFACE FINISHING PROCESSES ARE  
OFFERED OPTIONALLY.



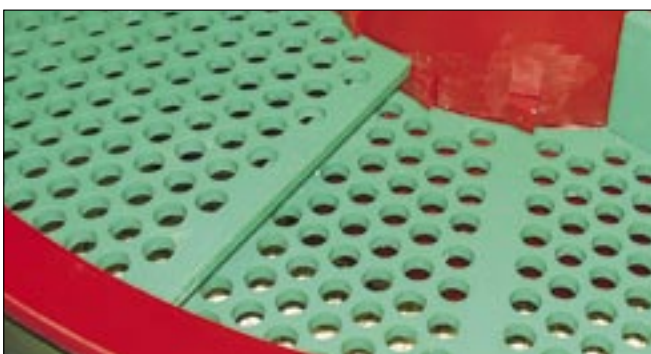
Linked Continuous Systems



Changeable separator screen



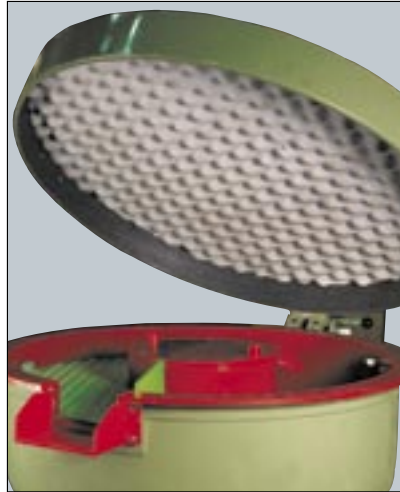
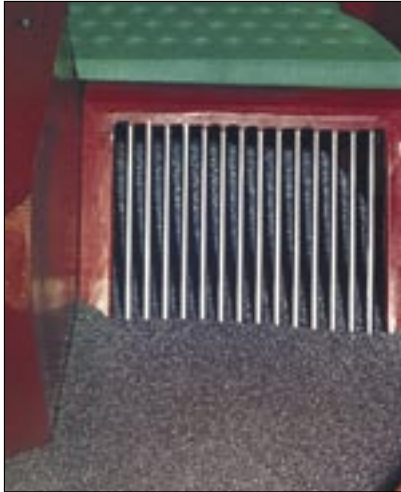
Undersized media screen



Stepped separator screen



Inox rod separator



ROUND VIBRATORY MACHINES

Machine Type		VM 125	VM 250	VM 500	VM 800	VM 1000	VRM 2000	VM 4000
Capacity	Liter	125	250	500	800	1000	2000	4000
Polyurethane Thickness	mm.	20	20	20	20	20	20-30	20-30
Steel Thickness	mm.	6	8	10	10	10	10	10
Process Area Width	mm.	210	290	370	430	440	690	910
Inside Diameter	mm.	700	970	1290	1560	1650	1841	2590
Discharge Height	mm	950	930	1030	1040	1235	1220	460
Width	mm	776	1100	1406	1700	1868	1960	2800
Length	mm	920	1250	1590	1895	1940	1960	2700
Height	mm	1050	1060	1235	1340	1395	1400	1585
Weight	kg	272	490	1153	1900	2110	1980	3250
Motor Cycle	rpm	1500	1500	1500	1500	1500	1500	1500
Motor Power	kW	0,75	1,1	4	6	6	7,5	15
Voltage/ Frequency	AC-V/ Hz	380/50	380/50	380/50	380/50	380/50	380/50	380/50

TROUGH VIBRATORS ARE USED FOR SURFACE  
PROCESSING OF SMALL, MEDIUM AND ESPECIALLY  
LARGE SIZED, PRODUCTION PARTS.

**MACHINE MODELS**

VM 20 Y, VM 150 Y, VM 375 Y, LNR 2000, VM Y 2200, LNR 6500 - A



**VM 20 Y**  
Capacity: 20 liter



**VM 150 Y**  
Capacity: 150 liter



**VM 20 Y GR**  
Capacity: 20 liter



**VM 375 Y**  
Capacity: 375 liter

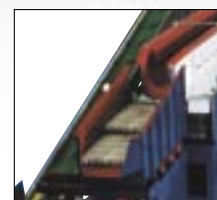
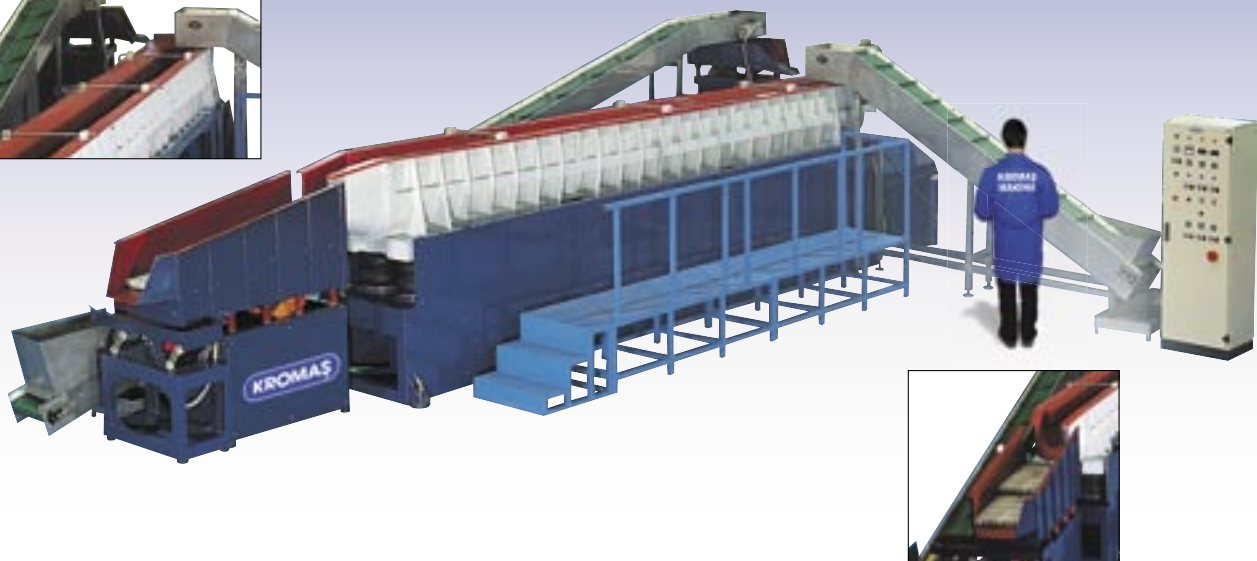


**LNR 2000**  
Capacity: 450 liter

OUR MACHINERY, WHICH ARE SPECIALLY DESIGNED TO PERFORM SURFACE FINISHING IN THE BEST POSSIBLE MANNER PURSUANT TO PROCESS FEATURES, ARE DIVIDED INTO DIFFERENT VERSIONS AMONG THEMSELVES.

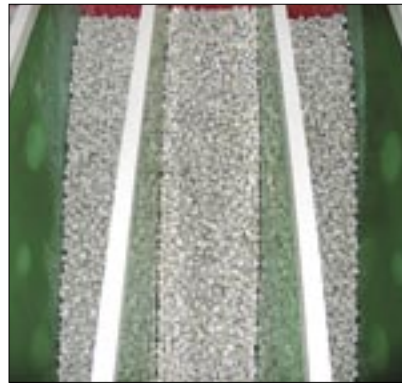


**VM Y2200**  
Capacity: 2200 liter



**LNR 6500 A**  
Full Automatic Linear Vibratory Finishing System

TROUGH VIBRATORS ARE DESIGNED TO MEET THE DEMANDS OF SERIAL AND HIGH CAPACITY PRODUCTION. MANUAL AND FULLY AUTOMATED SYSTEM CHOICES ARE OFFERED.



TROUGH VIBRATORY MACHINES

Machine Models		VM 20 Y GR	VM 150 Y	VM 375 Y	LNR 2000	VM Y 2200	LNR 6500 - A
Capacity	Liter	20	150	375	450	2200	1330
Process Area Height	mm.	235	480	570	594	985	594
Process Area Width	mm.	170	365	500	448	1100	448
Process Area Length	mm	530	870	1500	2000	2200	6000
Width	mm	600	1149	1799	1074	4830	1370
Length	mm	1600	908	1191	1445	2350	7700
Height	mm	965	1095	1125	1610	1510	1910
Weight	kg	200	496	1002	1730	4710	6350
Motor Cycle	rpm	1500/3000	1500/3000	1500/3000	1500	1500	1500
Motor Power	kW	0,93	1,1 / 1,5	4 / 6	6	22	30
Voltage/ Frequency	AC-V/ Hz	380/50	380/50	380/50	380/50	380/50	380/50

THE SM GROUP CENTRIFUGAL SURFACE FINISHING MACHINES ARE DESIGNED TO YIELD BEST SURFACE QUALITY AT HIGH SPEEDS. THESE SYSTEMS ARE SUITABLE FOR PROCESSING SMALL AND MEDIUM SIZE PARTS.

**MACHINE MODELS**

SM 6, SM 14, SM 2x14, SM 3x14, SM 50, SM 100, SM 400, SM 1x100, SM 2x100, SM 2x400



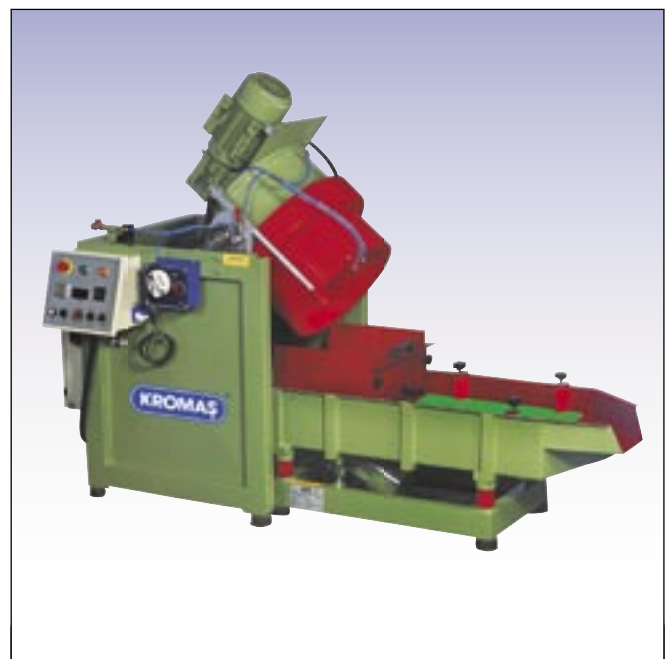
**SM 14**  
Capacity: 14 liter



**SM 2 x 14**  
Capacity: 28 liter



**SM 3x14**  
Capacity: 42 liter



**SM 50 + VE 50**  
Capacity: 50 liter

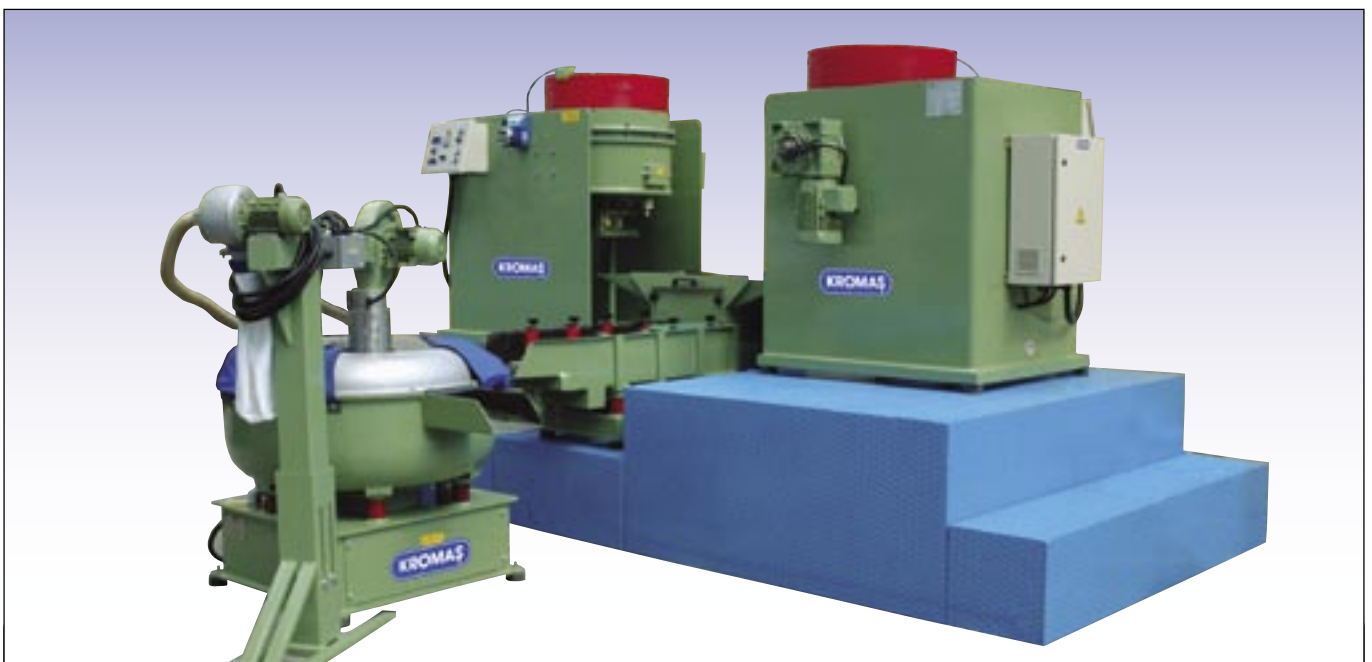
THE SM GROUP CENTRIFUGE SURFACE FINISHING MACHINES HAVE THE ABILITY TO REMOVE SURFACE DEFORMATIONS AND FLAWS ARISING FROM MOLD GROOVES AND AIR POCKETS OF PRESSED AND CAST PARTS.



**SM 100 R**  
Capacity: 100 liter

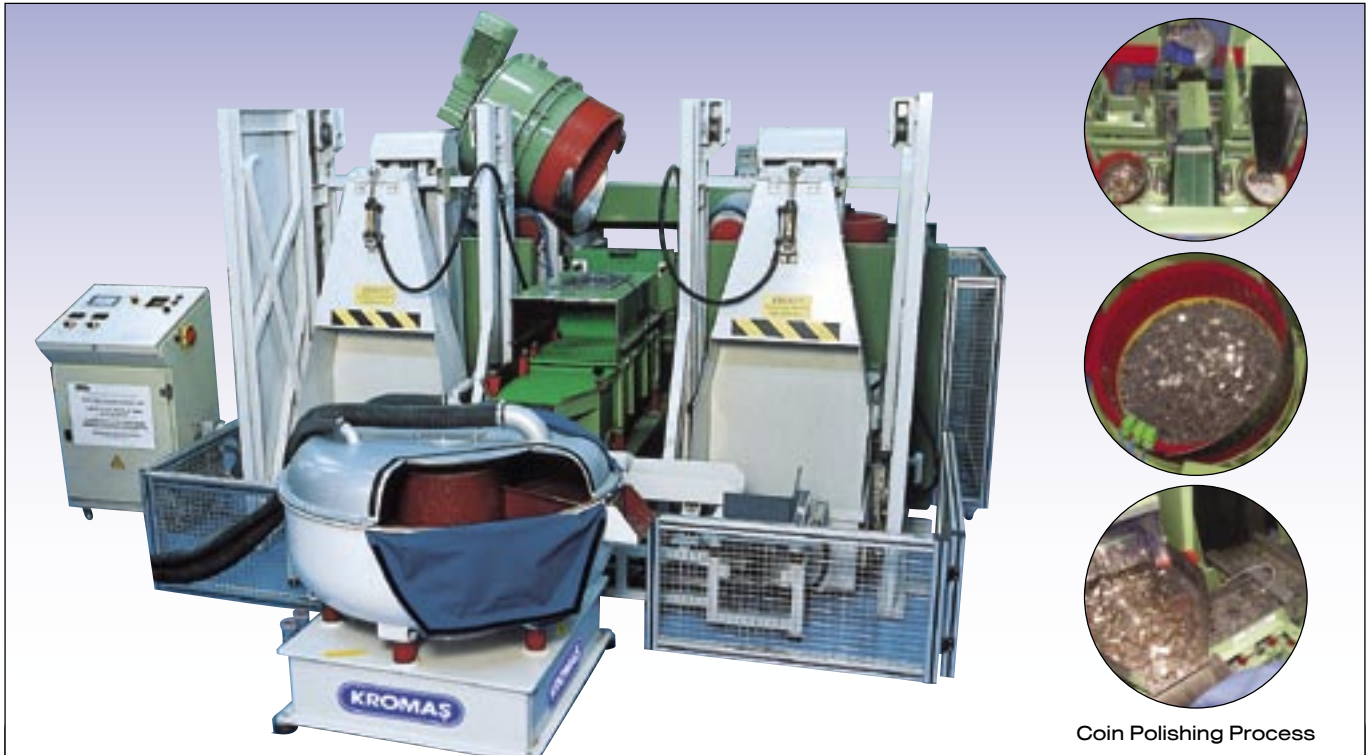


**SM 400 + VE 400**  
Capacity: 400 liter



**SM 2x100**  
Centrifugal Disc Finishing System

MANUAL OR AUTOMATIC CONTROL SYSTEMS  
FOR SURFACE FINISHING PROCESSES  
ARE OFFERED OPTIONALLY.



Coin Polishing Process

### SM 2x100

Full Automatic Centrifugal Disc Finishing System

Centrifugal Disc Finishing Machine									
Machine Type		SM 6	SM 14	SM 2x14	SM 3x14	SM 50-B	SM 50-C	SM 100 R	SM 400
Capacity	Liter	6	14	2x14	3x14	50	50	100	400
Polyurethane Thickness	mm.	20	20	20	20	20	20	20	20
Steel Thickness	mm.	8	10	10	10	10	10	10	10
Process Area Width	mm.	310	280	2x280	3x280	425	425	585	940
Width	mm	570	1020	1500	3167	1180	950	1380	2020
Length	mm	836	1140	1140	1140	1365	1105	1380	2400
Height	mm	750	1600	1600	1600	1315	1530	1510	1910
Weight	kg	84	150	300	450	385	303	790	1500
Motor Cycle	rpm	3000	3000	3000	3000	1500	3000	1500	1500
Motorpower	kW	0,25	1,1	2,2	3,3	3	3	4	15
Voltage/ Frequency	AC-V/ Hz	380/50	380/50	380/50	380/50	380/50	380/50	380/50	380/50

Wet & Dry process machines are available

ROUND VIBRATORY DRYERS OFFERS DRYING THE WET POST-SURFACE, CLEANING AND REMOVING FOREIGN OBJECTS AFTER SURFACE FINISHING IN VIBRATORY AND CENTRIFUGAL SYSTEM GROUP MACHINES.

**MACHINE MODELS**

VM 125 K, VM 250 K, VM 500 K, VM 800 K



**VM 125 K**  
Capacity: 125 liter



**VM 250 K + FKU**  
Capacity: 250 liter



**VM 500 K**  
Capacity: 500 liter



**VM 800 + FKU**  
Capacity: 800 liter

REMEDYING SURFACE OPACITY OF COATED MATERIALS (GOLD, SILVER, NICKEL, CHROME) AND STAINLESS POLISHING PROCESS. PRECISION DRYING WITH SPRAY POLYURETHANE COATED BOWL.



Drying Granules



Polyurethane Spray Coating



Hot Air Blower:  
Drying Workpieces In A Single Round



ROUND VIBRATORY DRYING MACHINES

Machine Type		VM 125 K	VM 250 K	VM 500 K	VM 800 K
Capacity	Liter	125	250	500	800
Polyurethane Thickness	mm.	PU SPRAY	PU SPRAY	PU SPRAY	PU SPRAY
Steel Thickness	mm.	6	6	8	10
Process Area Width	mm.	242	320	410	470
Discharge Height	mm	760	870	1000	875
Width	mm	780	1025	1390	1660
Length	mm	890	1175	1500	1770
Height	mm	950	1100	1140	1088
Weight	kg	280	430	1120	1770
Motor Cycle	rpm	1500	1500	1500	1500
Motor Power	kW	0,75	1,1	4	6
Voltage/ Frequency	AC-V/ Hz	380/50	380/50	380/50	380/50
Heating Power	kW	1,8	3	4,5	6

DRYING WET PARTS WITH VACUUM-SUCTIONED, HEATED AND CENTRIFUGE SYSTEM. AIR-DRYING THE PARTS COMING OFF COATING. DRYING PLASTIC PARTS.

REMOVING OIL FROM PRODUCTION FLAKES/DUST. DRAINING OIL FROM HEAVILY OILED PARTS. REMOVING INTENSE CHEMICAL RESIDUE FROM THE PARTS.

### MACHINE MODELS

SK 25 K, SK 50 K, SK 25 Y, SK 50 Y



**SK 25 K / SK 50 K**

Capacity: 25 / 50 liter



**SK 25 Y / SK 50 Y**

Capacity: 25 / 50 liter

### CENTRIFUGAL DRYING AND DEGREASING MACHINES

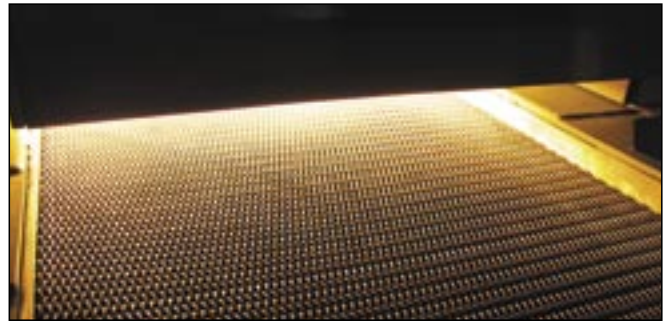
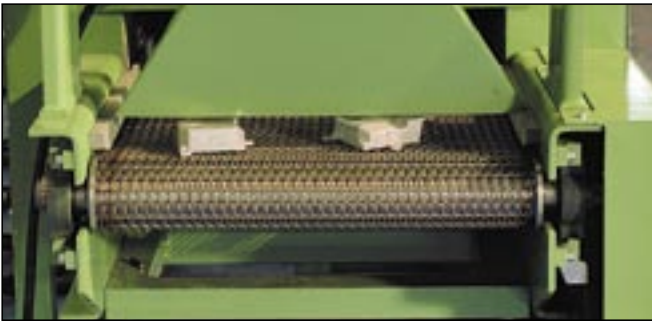
Machine Type		SK 25 K	SK 50 K	SK 25 Y	SK 50 Y
Capacity	Liter	25	50	25	50
Inside Diameter	Ø mm	415	445	415	445
Process Area Height	mm.	200	200	200	200
Discharge Height	mm.	360	370	360	370
Width	mm	645	710	645	715
Length	mm	650	720	650	720
Height	mm	920	985	920	985
Weight	kg	140	160	140	160
Motor Cycle	rpm	1500	1500	1500	1500
Centrifuge Cycle	rpm	480	480	480	480
Motor Power	kW	0,37	0,55	0,37	0,55
Heating Power	kW	2	2	2	2
Voltage/ Frequency	AC-V/ Hz	380/50	380/50	380/50	380/50



**TNL 4000**  
Tunnel Drying Machine



**IR 500**  
Infrared Tunnel Drying Machine



**IR 700**  
Infrared Tunnel Drying Machine



**IR 2000**  
Infrared Tunnel Drying Machine

Washing Systems



TNY 2000  
Tunnel Washing System



TNY 3000  
Tunnel Washing System

Other Machines



SM 6  
Centrifugal Disc  
Finishing Machine



DP 4  
Polishing Drum



Universal Placeable  
Hot Air Blower For  
Conveyors



DM 400  
Surface Finishing & Polishing  
Drum

Automatic Lacquer Spray Coating Line



Spray Lacquer  
Coating Machine

U.V. Tunnel  
Drying System

Vibratory Seperator Screen & Other Seperators



VE 14  
Vibratory Seperator Screen



VE 50  
Vibratory Seperator Screen



VE 75 YM-AT  
Vibratory Seperator Screen  
with Washing Unit



MS 3  
Band Magnetic  
Seperator

Bunker Elevator Loading Systems



CHN-BUN 150  
Chain Driven  
Bunker Elevator Loading System



CHN-BUN 250  
Chain Driven  
Bunker Elevator Loading System



HID-BUN 350  
Hydraulic  
Bunker Elevator Loading System

Feeding & Loading Conveyors



Conveyor With Palette



PVC Conveyor



## Recycling Compact Waste Water Treatment System ARS 100 and ARS 25

- Complete removal of residual particles from the waste water used in surface finishing processes e.g., deburring and polishing etc.
- Cleaning of cooling liquids from delicate treatment processes of metals, optical glasses, stainless steels and ceramics
- Separating of non-requested oils from emulsions, process water and other liquids
- Retrieval of precious metals, hard metals and alloys



ARS 100 FLK-T-K



ARS 25 B 60-0

### Process content:

This is the physical treatment process of waste water that comes from the source of waste water. System works with neutral waters (between pH 6,5-9,5)

### System processes:

- Flocculation
- Filtration
- Anti-foaming
- Disinfection



**Applications:**

These systems are produced to work with vibratory surface finishing machines, centrifugal surface finishing machines and barrel type machines as a standard. As optional, It can be also prepared as a project for the waste water that occurs in different industries.

**Optionals:**

- Chemical Treatment
- Microfiltration
- Automatic Sludge Discharging Unit

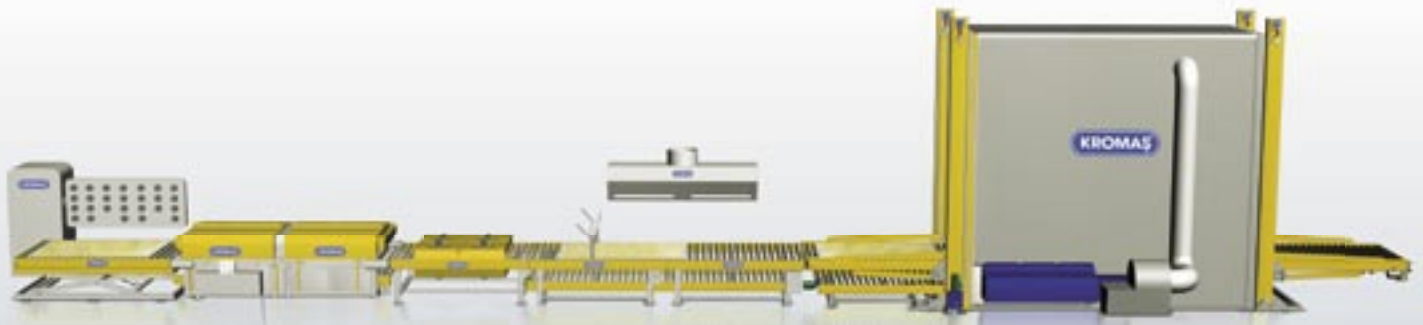
TECHNICAL SPECIFICATIONS			
Machine Type		ARS 100	ARS 25
Capacity	Liter/Hour	1200 - 2000	300
Water Tank Capacity	Liter	400 + 450	60
Sludge Container Capacity	kg	14	2,5
Max. Clean Water Outlet Pressure	bar	0,5	0,5
Separation Factor	g	2000	1800
Centrifugal Speed	rpm	3000	4100
Motor Power	kW	5,5	1,5
Total Power	kW	6	2,2
Voltage/Frequency	AC-V/Hz	400/50	400/50
Air Inlet	bar	6	-
Dimeansions (Width x Length x Height)	mm	1750 x 2500 x 1600	680 x 750 x 800
Total Weight	kg	600	160
Control Unit	-	Automatic (by PLC)	Semi Automatic
Dosing of (Process) Chemicals	-	Automatic	Optional
Disinfections	-	Optional	Optional
Filtration	-	Centrifuge Filter	Centrifuge Filter
Foam Removal	-	Automatic	Optional
Ratio of Water Recycling	%	95	95



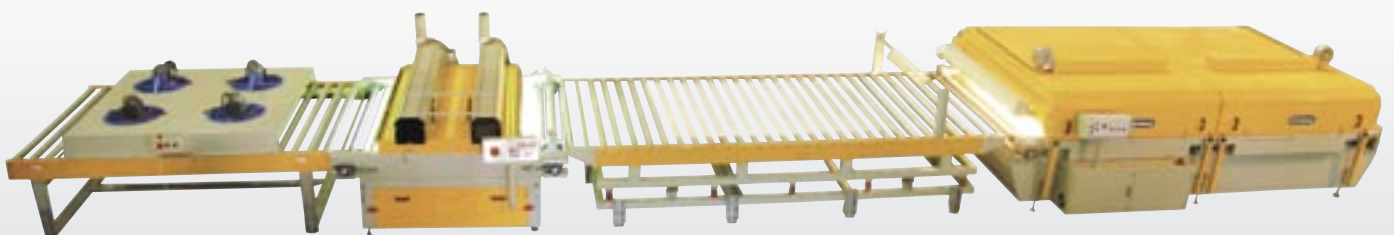
Phosphate and Silicate Passivation Systems



Phosphate and Silicate Passivation Systems



Full Automatic Surface Treatment System with Double Storey Curing Oven



Surface Treatment System Equipped with IR and UV Technology

# KROM-X Process



Kromaş, is occupied in the sector of surface finishing and develops process studies with an advanced R&D team.

“Surface finishing” is one of the most important process in the industrial manufacturing.

The new Krom-X® processes, developed by Kromaş, is taking the surface quality to the highest level.

Krom-X® processes can be used for steel, stainless steel, copper, brass, xamac, gold, silver, plastic, semi precious stones and many other materials.

Please contact us for consultation, sample analysis and customized processing development.



**Kromaş Makina ve Metal San. ve Tic. Ltd. Őti.**

Tuna Cad. No: 15 34150 Bayrampaşı - İstanbul

Tel: +90 212 613 73 50 (Pbx) • Faks: +90 212 567 07 88

E-mail: kromas@kromas.com.tr • Web: www.kromas.com.tr

**Kromas Deutschland GmbH**

Sophienstr. 23a 70178 Stuttgart / GERMANY

Phone: +49 (0) 711 89 24 85 - 20 • Fax: +49 (0) 711 89 24 85 - 11

E-mail: info@kromas.de • Web: www.kromas.de

**Kromas Scandinavia AB**

Norra ringvägen 9 - 276 50 Hammenhög / SWEDEN

Phone: +46 414 44 02 70 • Fax: +46 414 44 02 70

E-mail: kromas@telia.com • Web: www.kromas.com.tr

