

SURFACE FINISHING SOLUTIONS *in all fields of life*



SURFACE FINISHING MACHINES AND SYSTEMS

KROMAŞ[®]
Better surfaces for life...

Kromaş, which adds value to our life and provides brightness, aesthetics and functionality to many things we touch, see and use, with its machinery and technology, was established in 1993 as the pioneer of the surface treatment industry in Turkey.

Kromaş, continues to work in an effort to make life easier and more enjoyable with the technologies and solutions it offers in surface processing.

The company describes the purpose of the technologies and solutions it produces as improving the surface of the parts it uses in our lives and adding value. Without being limited to these, we can summarize the desired results to be obtained in machines and processes as follows:

- Surface Polishing
- Deburring / Grinding
- Edge Rounding
- Surface Cleaning
- Degreasing
- Surface Ageing (Natural Stone)
- Surface finishing before coating

In addition to making the necessary technology and machinery production on its own in order to do these operations, it also carries out the production and development of consumables over 2000 kinds which are used for these operations in its own laboratories and production facilities.

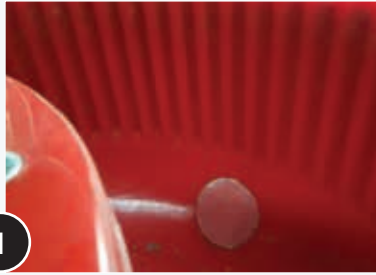
The machinery and consumables produced by Kromaş are successfully used in over 5,000 factories in 5 continents and 87 countries. Many of the more than 3,000 surface treatment processes developed by Kromaş are effectively applied in the world without any alternatives.

Kromaş, which has ISO 9001:2015 quality management system certificate also has CE certifications received from the world's major inspection organizations for all machinery groups. Kromaş, whose main approach is to add value to its customers and make life easier has made this philosophy a corporate culture with the motto of "Better Surfaces for Life" and has been continuing to develop it.

Kromaş Turkey







1

POLYURETHANE LINING

The machines are lined with high corrosion free, long lived and high quality polyurethane.



2

VIBRATION MOTOR

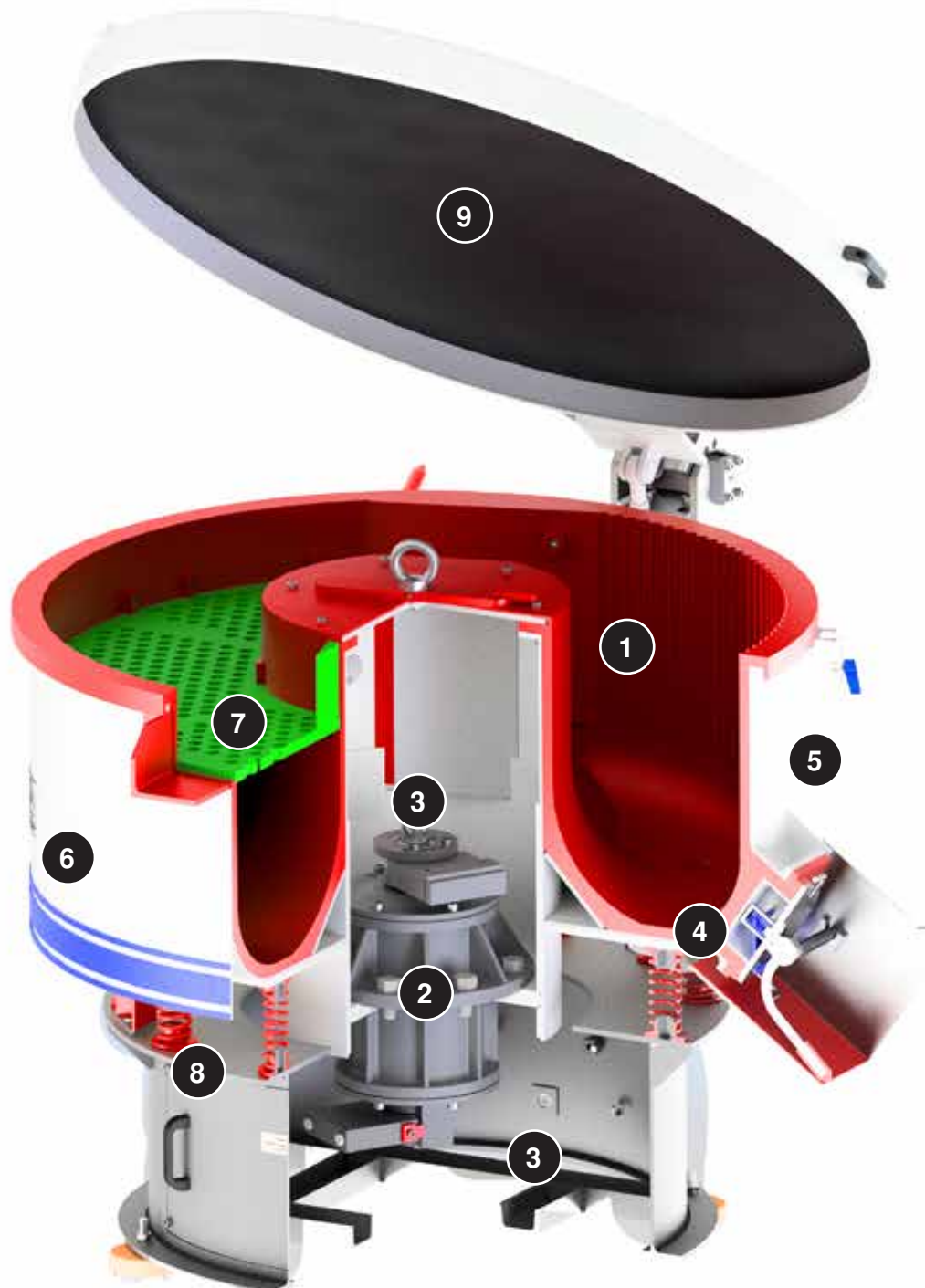
Our own design direct drive steel cased motors have special imported bearings and axtemal lubrication system with high level performance.



3

VIBRATION ADJUSTMENT

Vibration amplitude can be observed from the vibration gauge on the bowl. Required vibration can be obtained by adjusting the weights. If an optional frequency converter is installed vibration and processing speed can also be controlled from the control panel.





4

HEAT TREATMENT

All vibrating parts, in particular the metal bowl, are heat treated (normalized) during construction to avoid any stress fractures or metal fatigue due to the vibratory process.



7

SEPARATORS

Media separators are made of long lasting polyurethane. Media separators for broken or undersized media are made of Stainless Steel. Separators can be changed easily and quickly in less than a minute.



10

STANDARD CONTROL PANEL

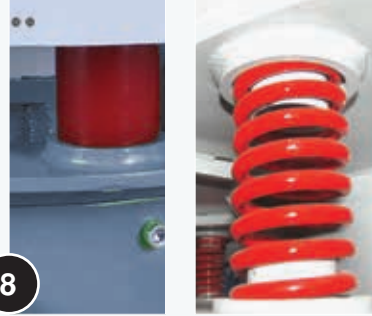
Designed and manufactured using the best materials and are suitable to CE, EN, IP norm and standards.



5

SHOT BLASTING

All metal surfaces are shot blasted for the added strength prior to lining and painting.



8

SUSPENSION

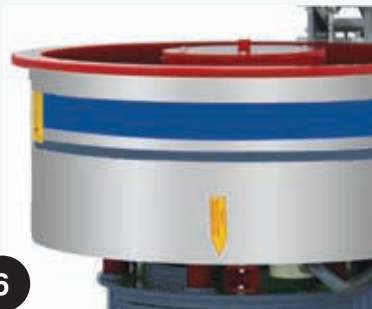
Long life PU and steel springs are used in the vibratory machines. PU springs are used in models VM 125 and VM 250.



11

PLC CONTROL PANEL

It is designed for automation systems and PLC control allows full process control.



6

PAINT

After painting with epoxy primer and epoxy steel filler, the surfaces are then sprayed with two coats of epoxy paint and then oven treated.



9

NOISE ISOLATION

The machines are the quietest vibratory machines on the market and if necessary optional acoustic lid or sound isolation cabin can be supplied.



PRODUCTION STANDARDS

All machines and equipments carry the CE (European Union Safety Standard), VDE-IP Electrical Standard, ISO 9001 Quality Management System, EN 60204-1 Electric Standard, TSE Quality Certificate and GS Certificate marks.

Round Vibratory Surface Finishing Machines

Kromas vibratory finishing machines are all around, flexible and efficient machines. Variety of industries are using Kromas machines successfully on daily basis. Vibratory finishing machines are used for finishing of metal, plastic, ceramic, stone, glass, wood and rubber products. Vibratory finishing process includes: deburring, radiusing, polishing, descaling, deflashing, degreasing, cleaning, smoothing etc.

Small or large, light or heavy, parts are successfully processed in variety of Kromas vibratory machines. Kromas customers benefits from large variety of material handling, automatic solution, drying and waste water treatment systems available to enhance their new or existing processes.

Kromas efficient process solutions are produced in test laboratory centers in Turkey. Results from test trials allow Kromas to offer to customers, best optimal machine systems, process and media. Selecting the correct machines by customer production requirement, use of high quality materials, high quality workmanship and engineering guarantee a low maintenance cost and long service life.

The models between VRM 125 - VRM 1000 have media separation systems.

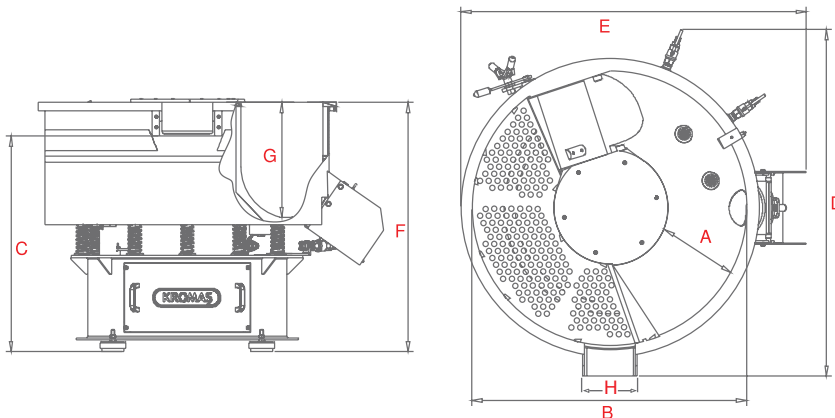


VRM 225





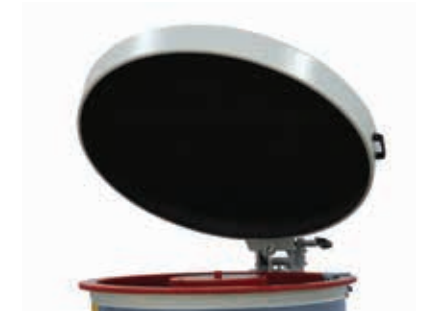
VRM 800



Options - Accessories



Pneumatic Pedal System



Manual & Pneumatic Noise Cover



Compound Dosing System



Compound Dosing Pump



Control Panel

ROUND VIBRATORY SURFACE FINISHING MACHINES														
Machine Type		VRM 2	VRM 20	VRM 50	VRM 125*	VRM 225	VRM 350	VRM 500*	VRM 800	VRM 1000	VRM 1500	VRM 2000	VRM 3200	VRM 4000
Capacity	liter	2	15	30	125	225	350	500	800	1000	1200	1700	2400	3600
Polyurethane Thickness	mm	7	20	30	20	20	20	20	20	20	20	20-30	25-35	25-35
Steel Thickness	mm	3	-	-	6	6	6	8	10	10	8	10	10	10
Process Area Width	mm	A	59	108	150	210	290	367	455	440	555	670	834	910
Inner Diameter	mm	B	221	400	580	700	970	1130	1300	1650	1800	1975	2325	2590
Discharge Height	mm	C	251	569	745	950	930	982	1019	1210	1170	1047	-	-
Width	mm	D	257	465	680	776	1100	1434	1639	1837	1920	2006	2358	2800
Length	mm	E	257	478	680	920	1250	1350	1635	1926	1940	2013	2182	2700
Height	mm	F	251	569	745	1050	1060	1137	1180	1393	1395	1550	1585	1645
Process Area Height	mm	G	88	190	220	331	400	435	520	590	610	633	683	760
Outlet Chute Width	mm	H	-	-	-	210	290	367	455	440	500	-	-	-
Weight	kg		11	60	130	272	490	556	905	1900	2110	1956	2620	3560
Motor Cycle (at 50 Hz)	d/d		3000	3000	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Motor Power	kW		0,05	0,27	1,1	0,75	1,1	2,2	4	6	6	11	15	22

* VRM 125, VRM 225 and VRM 500 machine version are available for ball burnishing process with stainless steel media.

Through / Tub Vibratory Surface Finishing Machines

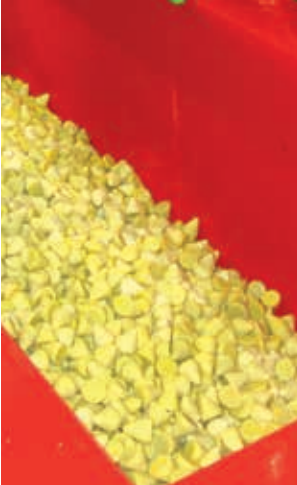


From 20 litres to 2200 litres and more, Kromas is manufacturing Trough Vibratory Machines to fit your process application. Parts up to 2200 mm and bigger, can be processed in plastic or ceramic media, or with ball burnishing vibratory process.

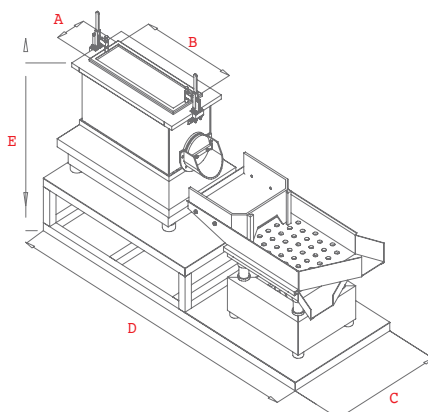
Trough vibratory machines are ideal for processing of heavy, long bulky or delicate components which allow unlimited application possibilities.

Drive motors are mounted under the machine, directly to the bottom of the processing tub. Also, larger capacity units are driven by two motors mounted on the side of the tub. Drive motors and imbalance units are connected with unique vibration absorbing couplings.

Processing tub can be divided into individual compartment. This is important for processing of delicate parts. Compartment can be filled with different media for step processing as well. Acoustic protection/ Sound covers are available and listed separately.



Kromas Vibratory Tub/ Trough machines are used in variety of industries. From the Automotive and Aerospace parts, to the Natural Stone and Wood industry. Kromas robust design of vibratory tub machines is recognized in "Stone" finishing industry. Tiles and pavers of various materials, size, and thickness are processed in these machines with short cycle time, desired finish and customer satisfaction.



VM 20 Y GR

Capacity: 20 liter



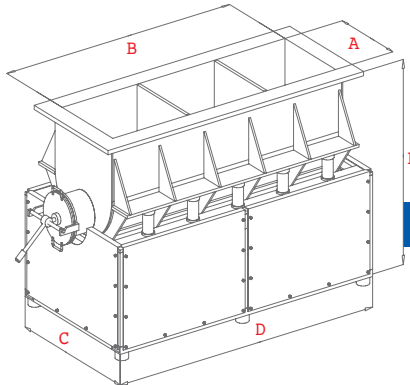
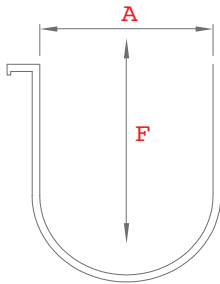
VM 150 Y

Capacity: 150 liter



VM 375 Y

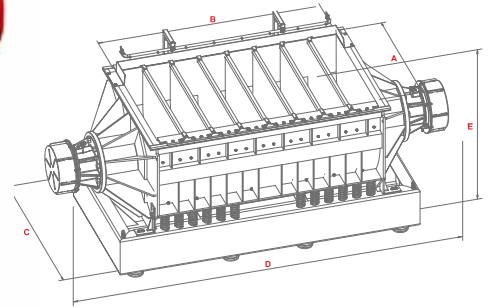
Capacity: 375 liter



VM 20 / 150 / 375 Y

VM Y 2200

Capacity: 2.200 liter



THROUGH/TUB VIBRATORY SURFACE FINISHING MACHINES										
MachineType			VM 20 Y*	VM 20 Y GR*	VM 35 Y*	VM 150 Y*	VM 375 Y*	VM Y 2200*	VM 2200 L*	VM 2400*
Capacity	litre		20	20	35	150	375	2200	2500	2400
Polyurethane Thickness	mm		15	15	15	20	20	25-35	25-35	25-50
Process Area Width	mm	A	170	170	304	365	500	1100	1300	1510
Process Area Length	mm	B	530	530	180	1016	1500	2200	2200	1600
Width	mm	C	600	600	590	712	1191	1320	1520	1900
Length	mm	D	710	1600	635	1297	1700	3900	3900	3115
Height	mm	E	700	782	360	1044	1121	1685	1685	2030
Process Area Height	mm	F	235	235	610	585	570	967	967	1370
Weighth	kg		125	200	160	496	1270	5250	5250	4073
Motor Cycle (at 50 Hz)	d/d		1500	1500	3000	1500	1500	1500	1500	1500
MotorPower	kW		0,75	0,75	0,65	1,1 / 1,5	4 Kw/ 6	30	30	30

* All through vibratory machines have version available for ball burnishing process with stainless steel media.

Linear Vibratory Surface Finishing Machines

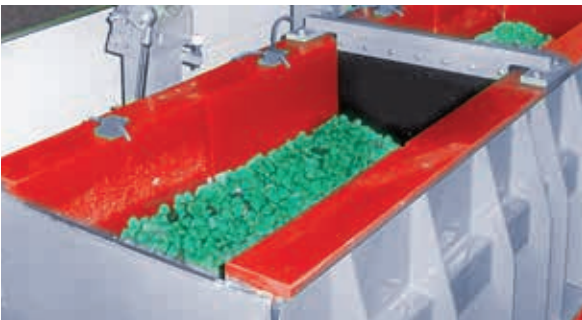


Kromas linear vibratory tub machines are allowing unlimited application possibilities. Kromas is manufacturing systems with automatic parts unloading and separation process. Manual and pneumatic noise protection covers are listed as optional machine equipment.

High throughput capacity, high profitability and unlimited automation possibilities are main characteristics of Kromas LNR vibratory continuous finishing system.

It is used in high volume production for finishing, deburring, radiusing in stamping, forging, die-casting processes. Kromas LNR systems provide unmatched reliability in operation.

Kromas LNR system provides unique operation safety with a design suited for occupational health and safety rules and its user-friendly ergonomic structure.



LNR 2000

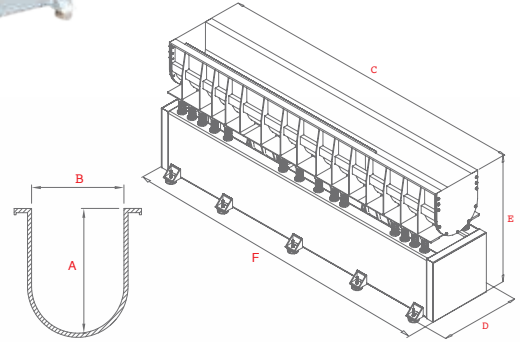
Capacity: 450 liter





LNR 4000

Capacity: 900 liter

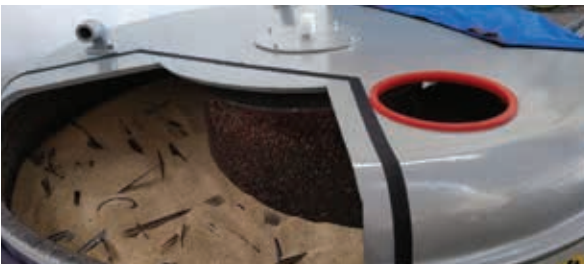


LNR 6500

Linear Vibratory Surface
Finishing System

	Capacity	Polyurethane Thickness	Proces Area Height	Proces Area Width	Proces Area Lenght	Width	Height	Length	Weight	Motor Cycle (At - 50hz)	Motor Power
	Liter	mm	mm	mm	mm	mm	mm	mm	kg	d/d	kW
Machine Type			A	B	C	D	E	F			
LNR 2000	450	20	594	448	2000	1074	1200	2445	1730	1500	6
LNR 4000	900	20	594	448	4000	1074	1200	6000	4500	1500	11
LNR 6500	1350	20	594	448	6000	2550	2200	8500	8125	1500	30

Vibratory Drying Finishing Machines

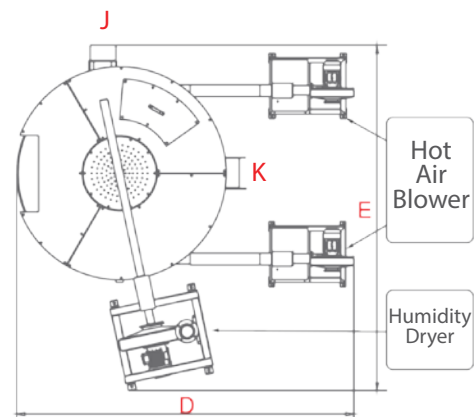
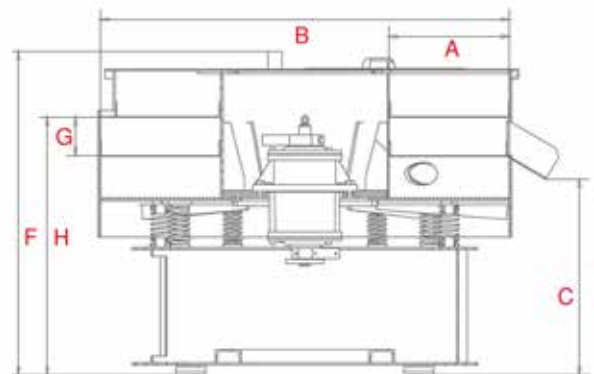


Vibratory Drying Machines are used for drying components/parts, after the vibratory finishing process. Round dryer is filled with drying media (corn maize of various sizes).

Wet parts are loaded continuously into the machine and travel around trough the process channel in pre heated drying media. Parts are separated via separation screen. Dryers with forced hot air are used for one cycle drying of parts.

Drying with granule after polishing process points out the surface polishing level. Our step dryer can dry parts which have different shape and geometry and aren't suitable to dry with granule.

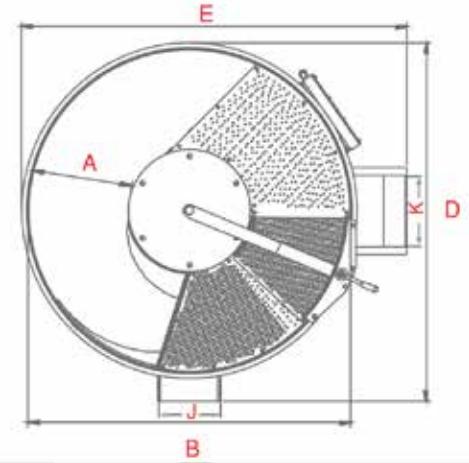
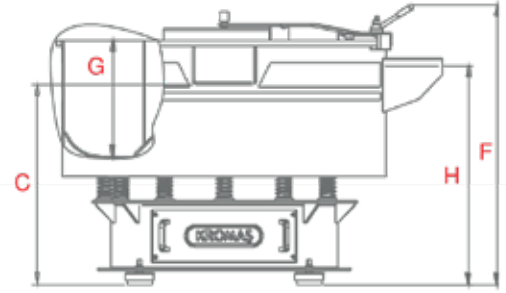
This process is suitable for fragile surfaces that drying with granule is unsuitable.



VRM 500 Vibratory step/layer dryer with hot air blower(FKU)

VRM 350K

Capacity: 350 liter



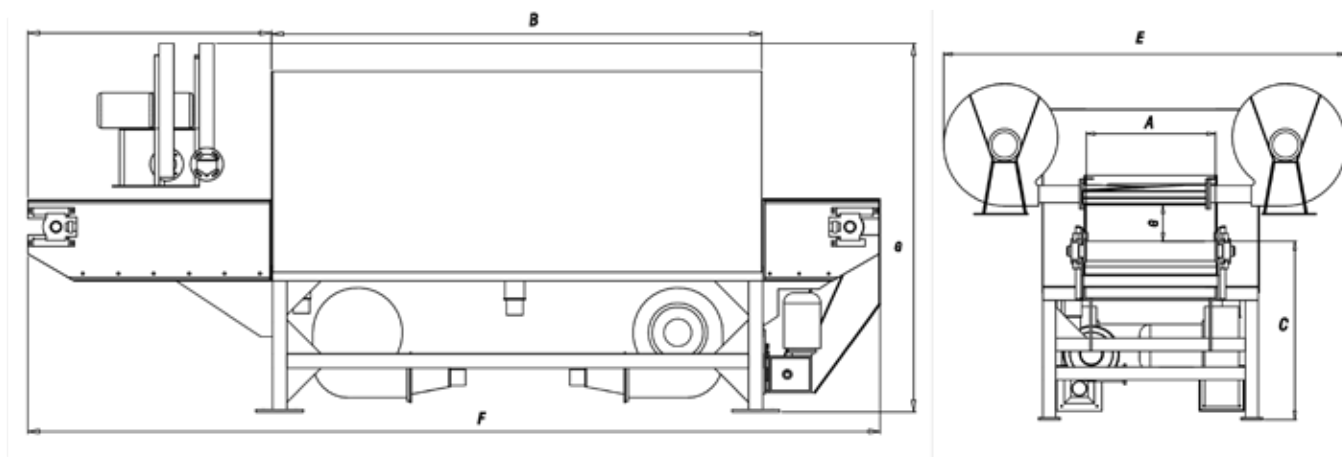
ROUND VIBRATORY DRYER MACHINES									
Machine Type			VRM125 K	VRM225 K	VRM350 K	VRM500 K	VRM800 K	VM250 K-S Gradient Drying	VM500 K-S Gradient Drying
Capacity	liter		125	225	350	500	800	250	500
Polyurethane Thickness	mm		PU SPREY	PU SPREY	PU SPREY	PU SPREY	PU SPREY	PU SPREY	PU SPREY
Steel Thickness	mm		6	6	6	6	10	6	8
Process Area Width	mm	A	242	320	366	405	465	330	470
Inner Diameter	mm	B	700	987	1160	1298	1595	1000	1600
Discharge Height	mm	C	760	820	762	826	1005	330	765
Width	mm	D	890	1175	1332	1485	1768	1170	2650
Length	mm	E	780	1225	1427	1600	1875	1160	2717
Height	mm	F	950	1044	1069	1153	1225	930	1260
Process Area Height	mm	G	330	352	440	477	555	100x4	200x3
Machine Inlet Height	mm	H	885	840	847	903	1080	950	1492
Outlet Chute Width	mm	J	242	320	366	405	465	330	470
Inlet Chute Width	mm	K	-	360	406	445	505	370	510
Weight	kg		280	440	500	810	1900	480	1250
Motor Cycle (at 50 Hz)	d/d		1500	1500	1500	1500	1500	1500	1500
Motor Power	kW		0,75	1,1	1,1	4	6	1,1	4
Heating Power	kW		1,8	3	4	4,5	6	12	20

Belt Drying Machines



TNL 4000 C

Kromas belt dryers are used for drying of large and small parts that are prone to damage. Parts that have many holes of different sizes and heavy parts are ideal for this type of machine. Drying is achieved by temperature controlled hot air which is recirculated in drying chamber. Belt drying machines can optionally be equipped with air sprays to blow off water.



	Conveyor Speed	Process Area Width	Process Area Length	Discharge Height	Process Area Height	Width	Length	Height	Weight	Motor Cycle (At 50 Hz)	Total Power
	m/dak.	mm	mm	mm	mm	mm	mm	mm	kg	d/d	kW
		A	B	C	D	E	F	G			
TNL 4000	1-2,5	600	2000	830	170	1870	3610	1560	1740	1500	49
EKR 500x3000	1-2,5	500	2000	915	125	1345	3200	1690	520	1500	20

Centrifugal Drying and Degreasing Machines

SK 50 K



SK 50 K
/ Inox



Kromas centrifugal dryers are used for stain free drying and degreasing of small to medium size parts and preventing parts of being tangled. Timer, heat isolation at top cover, automatic brake system which stops the machine when cover is open, and safety lock stands out our centrifugal drying and degreasing machines.



	Capacity	Inner Diameter	Width	Length	Height	Weight	Centrifuge Cycle	Motor Power	Motor Cycle (At 50 Hz)	Heating Power	Total Power
	liter	Ø mm	mm	mm	mm	mm	d/d	kW	d/d	kW	kW
		A	B	C	D	E	F	G			
SK25 Y	33	420	645	750	685	133	600	0,55	1500	-	0,55
SK50 Y	46	470	710	835	835	150	600	0,55	1500	-	0,55
SK25 K	33	420	645	750	765	138	500	0,55	1500	2	2,55
SK50 K	46	470	710	835	835	155	500	0,55	1500	2	2,55

Centrifugal Disc Finishing Machines

Kromas SM Series of centrifugal disc finishing machines are high energy machines. These machines have 10 times higher productivity when compared to round vibratory finishing machines.

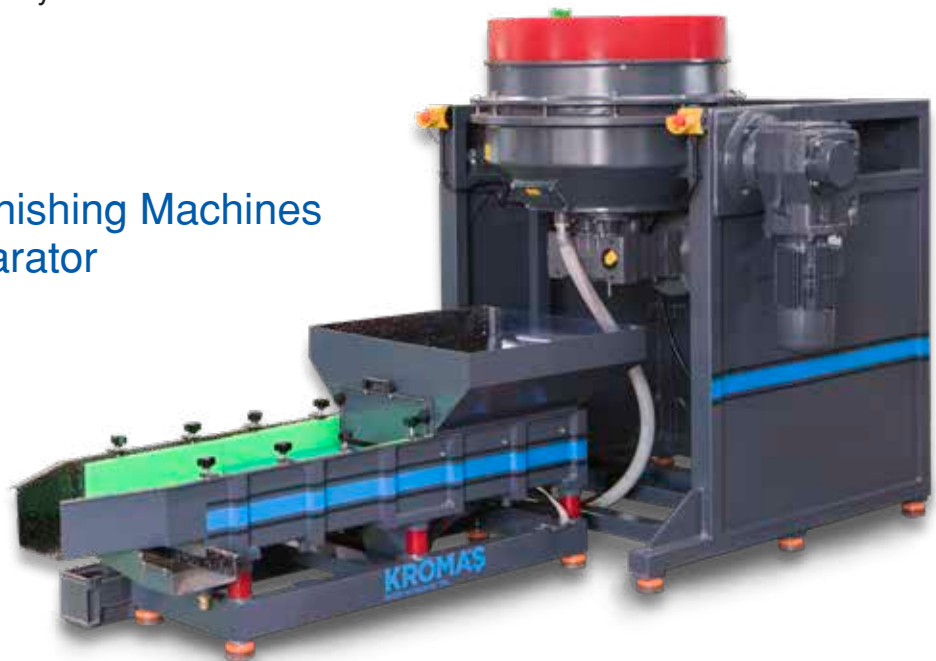
SM Machines have universal application, from high gloss polishing to aggressive deburring and radiusing. SM machines are stand alone processing machines. Machines can be equipped with manual tilting or electric tilting motor for easy parts unloading. Low machine configuration allows for easy visual control of a machine finishing process.

Kromas SM machines are fixed pivot centrifugal disc machines.

At the end of the centrifugal disc finishing process, the system pivots by 140 degree, thus transporting the mass of media and work pieces/parts on to the screening machine. There, separation takes place. When the SM centrifugal disc machine pivots back to processing position it could be refilled with media and parts manually or by automated system.



Centrifugal Disc Finishing Machines and Vibratory Separator

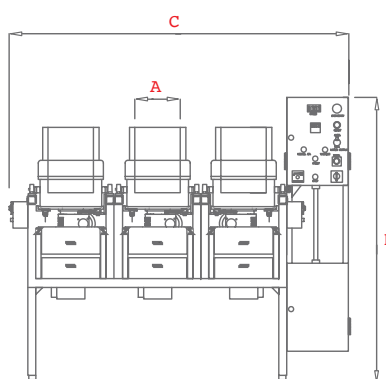




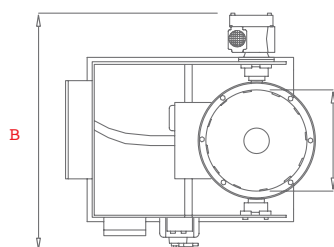
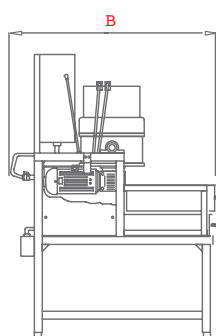
SM 3x14
Capacity: 3x14 liter



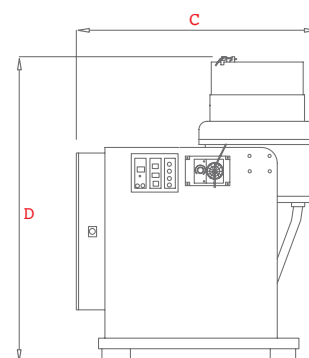
SM 100 R
Capacity: 100 liter



SM 14 / SM 2x14 / SM 3x14



SM 50 / SM 100 / SM 200 / SM 400



CENTRIFUGAL DISC FINISHING MACHINES											
MachineType			SM 7	SM 14	SM 2x14	SM 3x14	SM 20	SM 50 C	SM 50 BR	SM 100 R	SM 200
Capacity	litre		7	14	2x14	3x14	20	50	50	100	200
Polyurethane Thickness	mm		20	20	20	20	20	20	20	20	20
Steel Thickness	mm		10	10	10	10	-	10	10	10	10
Process Area Width	mm	A	250	280	2x280	3x280	300	425	425	585	670
Length	mm	B	525	1140	1140	1140	808	1105	1365	1380	1590
Width	mm	C	458	1020	1500	3167	893	950	1180	1380	1720
Height	mm	D	437	1600	1600	1600	913	1530	1315	1510	1650
Weight	kg		70	150	300	450	240	303	385	790	985
Motor Power	kW		0,37	1,1	2,2	3,3	1,5	3	3,5	4	10

Process Water Recycling Systems

Process water recycling systems which are produced by Kromaş and high quality are used for below purposes:

- Recycling of waste water that comes out of mass finishing machines (deburring, poishing etc.) by separating particules from water
- Cleaning of cold water that are used for processing of metal, optical glass, stainless steel, ceramic and other parts
- Recycling of precious metals and alloys

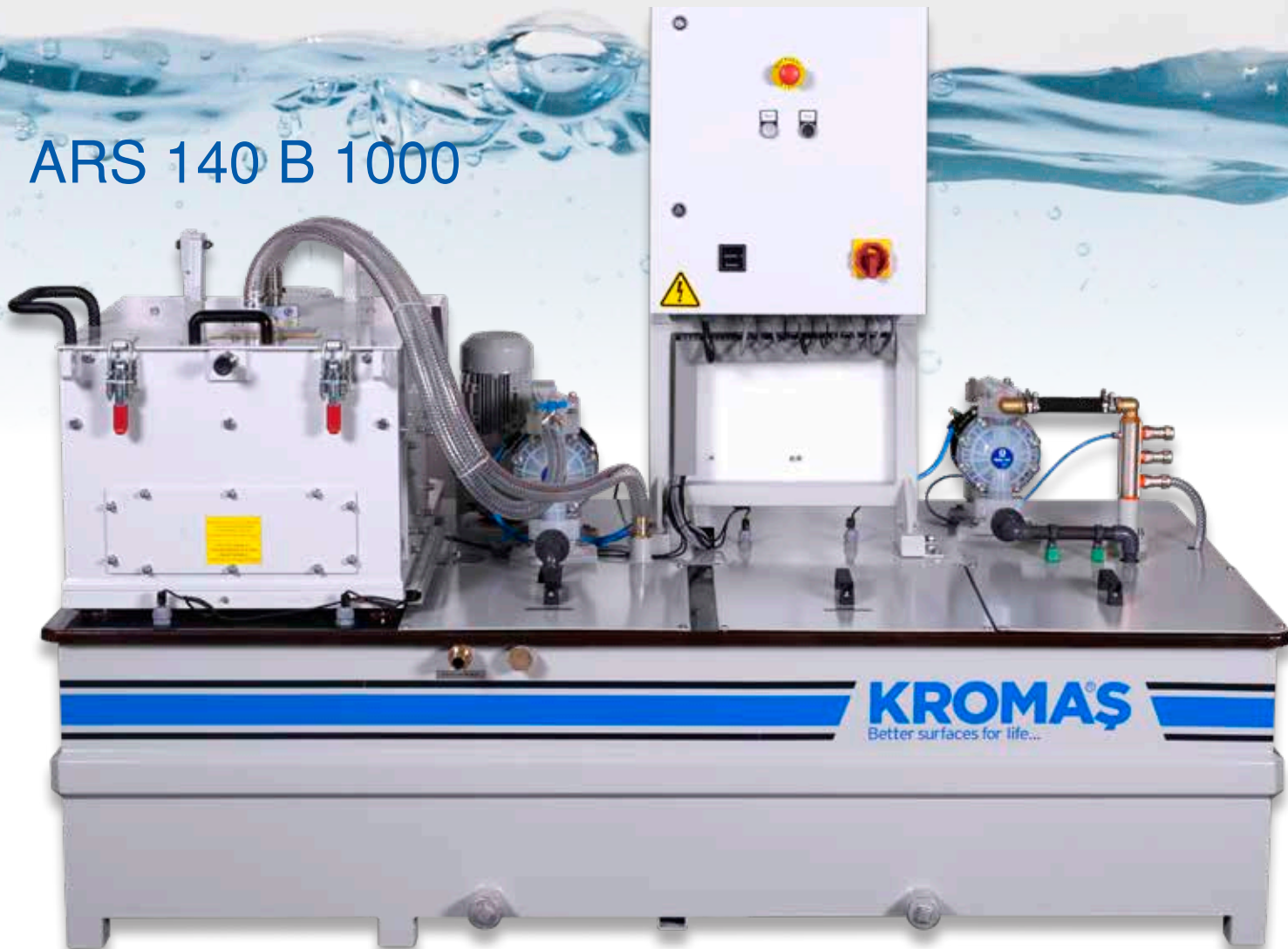
Process Scope:

This process is physical cleaning of waste water that comes from the source. The system works with neutral waters (between ph 6.5 - 9.5).

Processes that are made at the system:

- Flocculation
- Filtrasion
- Defoaming

ARS 140 B 1000



ARS 25 B 60

APPLICATIONS:

These systems are produced to work with vibratory surface finishing machines, centrifugal surface finishing machines 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.



Machine Type	Unit	ARS25 B0	ARS25 B60	ARS25 MN500	ARS25 MN1000	ARS140 B1000
Capacity	liter/hour	300	300	300	300	1200
Clean Water Tank Capacity	liter	-	30	270	556	482
Waste Water Tank Capacity	liter	-	30	135	260	338
Total Tank Capacity	liter	-	120	405	816	820
Sludge Container Capacity	kg	2,5	2,5	2,5	2,5	22
Max. Clean Water Outlet Pressure	bar	0,5	0,5	0,5	0,5	0,3
Seperation Factor	g	1800	1800	1800	1800	2010
Centrifuge Speed	d/d	4100	4100	4100	4100	2750
Motor Power	kW	1,5	1,5	1,5	1,5	5
Total Power	kW	1,5	2	1,5	1,5	5,5
Measurements	mm	702x413x780	680x800x800	1560x760x1392	2060x1080x1392	2120x1275x1695
Total Weight	kg	115	160	290	335	620
Control Unit	-	Semi automatic	Semi automatic	Semi automatic	Semi automatic	Semi automatic
Chemical Dosing	-	-	Optional	Standard	Standard	Standard
Filtration	-	Centrifugal filter	Centrifugal filter	Centrifugal filter	Centrifugal filter	Centrifugal filter
Defoaming	-	Optional	Optional	Optional	Optional	Optional
Ratio of Water Recycling	%	95	95	95	95	95

Surface Finishing Barrels



DM 400
Capacity: 400 liter

Process barrel of Kromaş DM 400 Surface Finishing and Polishing Barrel is lined with elasthomer polyurethane.

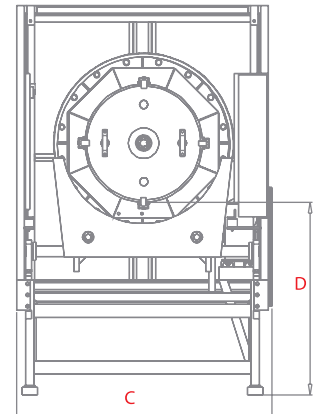
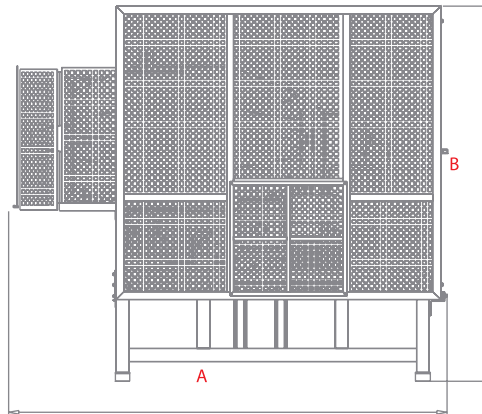
DM 400 is a versatile machine suitable for wet or dry barrel finishing processes.

These barrels are designed for surface finishing of plastic and metal parts.

Internal polyurethane form of DM 400 Surface Finishing and Polishing Barrel is very efficient. It allows the users to have fast and economic production.



Patented, special inner design to increase process efficiency



	Capacity	Length	Height	Width	Process Area Height	PU Kalınlığı	Steel Thickness	Rotation Motor Power	Centrifuge Cycle	Motor Cycle (At 50 Hz)	Water Inlet	Weight
	litre	mm	mm	mm	mm	mm	mm	kW	d/d	d/d	bar	kg
		A	B	C	D							
DM 400	400	2240	1918	1256	950	15	6	4	1-40	1500	2-4	920

Kromaş Cold Pu Kits



POLYURETHANE COATING ON WORN SURFACES

On-Site Application Without Time Loss

Cold Polyurethane, a special coating method, is a fast and effective process that can harden in 24 - 48 hours at room temperature without the need for an oven and does not require any mold.

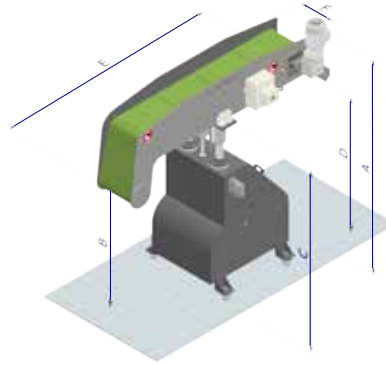
Molds and industrial furnaces are needed to make full or local coatings in vibratory surface treatment machines. For this reason, the machines must be removed from the production areas for this process. This means loss of time and work and, of course, costs. With the Cold Polyurethane Kits offered by Kromaş, the coating process is carried out quickly and at low cost.

- No need of mold.
- No need for industrial furnaces
- No delivery cost or time.
- No labor and service cost.
- Fast, Practical and On-Site Application
- Competitive Price - High Performance
- Suitable for Every Brand and Model Machine

Supplemental Equipments

MAGNETIC SEPARATOR

MAGNETIC BELT SEPARATOR

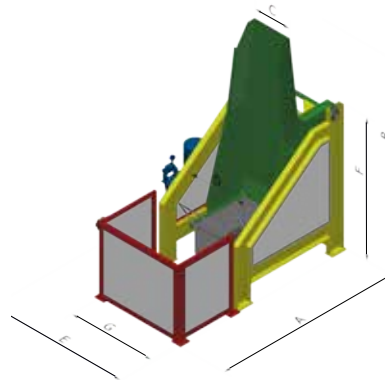


Magnetic separators separate iron (ferric) or steel derived materials into VRM machines. They can perform separation with any size of consumable. It is a very efficient method of separation. Separation operation is very efficient especially in sheet metal and bolt type products. There is no processed product left in the vibration machines. With the demagnetization feature, it returns the magnetized part to its non-magnetized state.

TYPE	A	B	C	D	E	F	MOTOR POWER (Kw)	BAND SPEED (m/min.)	MAGNETIC POWER (Gauss)	BAND THICKNESS (mm)	TABLA STROKE (mm)	MAGNETIC AREA DISTANCE (mm)	MAX. MATERIAL WEIGHT (gr)	MACHINE WEIGHT (Kg)
MS-3	1928	1051	1632	1199	2079	335	0,75	0 - 22	12000	4	300	80-90	200	670

LOADING SYSTEMS

CHAIN DRIVEN HOPPER ELEVATOR LOADING SYSTEM

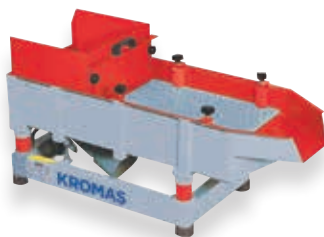


These are the systems that load the parts to be processed into the vibration and centrifuge machines. Hydraulic or chain types are available. There are models with self bucket or mobile bucket loading. Their loading capacity is variable and they can be loaded on all surface treatment machines.

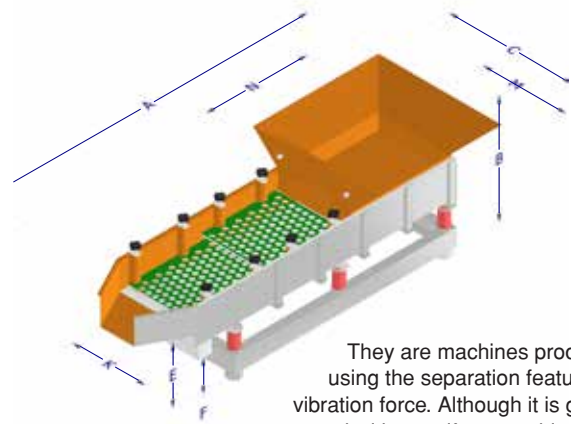
TYPE	A	B	C	D	E	H	L	LOADING MOTOR (Kw)	TRAVEL MOTOR (Kw)	BOX VOLUME (liter)	LOADING CAPACITY (kg)	MACHINE WEIGHT (kg)
HID-BUN500	1150	1150	1430	600	1920	3500	6000	1,5	0,75	250	250	1500

SEPARATORS

VE 50 VIBRATORY SEPARATOR



VE 75 VIBRATORY SEPARATOR

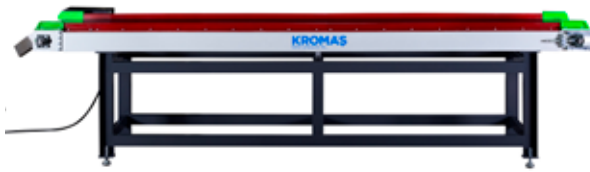


They are machines produced by using the separation feature of the vibration force. Although it is generally used with centrifuge machines, it can be used in many surface finishing processes. Two types are produced as VE50 and VE75 models. There are also special-purpose wash-down versions.

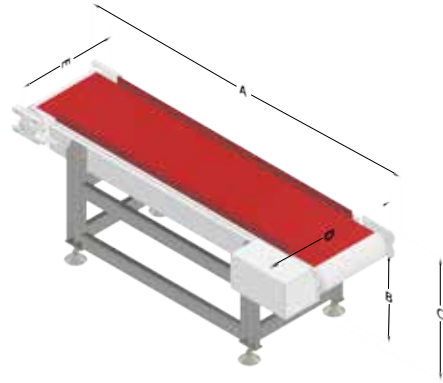
TYPE	A	B	C	D	E	F	G	H	K	L	M	N	P	TOTAL VOLUME lt.	WEIGHT kg.	MOTOR SPEED d/d	MOTOR POWER kW.
VE50	1290	655	500	610	1290	450	800	390	316	15	45	410	645	50	190	1500	0,75
VE75	1940	765	500	610	1290	450	1265	390	316	15	45	600	440x2	75	242	1500	0,75

CONVEYORS

PVC BELT CONVEYOR



They are products used in system or group machine combinations. Special type PVC tape is used. Band speed can be adjusted. Conveyor height can be adjusted according to the desired size. Conveyor width 4mt. and can be produced in 2, 3, 4, 6 and 8 meters in length.



TYPE	A	B	C	D	E	BAND THICKNESS mm	BAND SPEED m/d	MOTOR POWER kW.	WEIGHT kg.
PVC-KON400X2000	2000	400	1000	760	1060	3	1-10	0,37	175
PVC-KON400X3000	3000	400	1000	760	1060	3	1-10	0,37	210
PVC-KON400X4000	4000	400	1000	760	1060	3	1-10	0,37	265
PVC-KON400X6000	6000	400	1000	760	1060	3	1-10	0,37	385
PVC-KON400X8000	8000	400	1000	760	1060	3	1-10	0,37	510

TUNNEL WASHING

TNY 3000

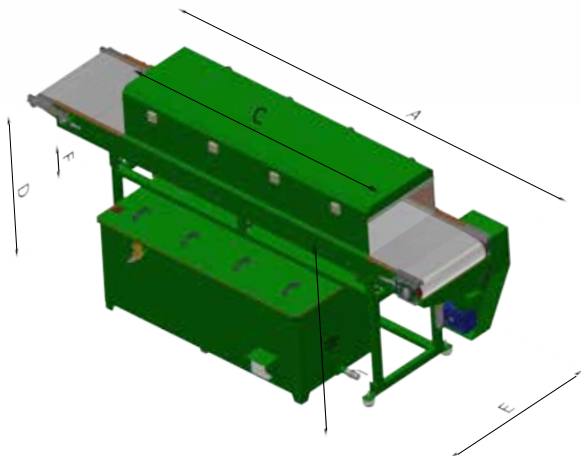


With TNY3000, it is very easy to wash or passivate parts of various sizes with chemicals. Washing is carried out by spraying the pressurized water coming from the pump on the materials with spray nozzles. AISI304 quality stainless mesh band used in the system allows the sprayed chemical to penetrate every area of the parts.

In TNY3000, 380 V, 50-60 Hz, 3 Phase AC electrical input is used. These values may vary by country. On request, electrical systems can be used according to different values. In TNY3000 tunnel washing machines, dirty, oily or metal or similar materials that have been deburred and polished are washed with water or chemicals under pressure.

The system consists of stainless mesh band, washing nozzles, spray pump and fan. The washing process occurs when the material passes through the spray zone with the nozzle at the adjusted speed. After the washing process, the waters on the materials are removed with the fan.

The pump is activated automatically when the system is running. It sprays from nozzles. Since the system operates in a closed circuit, water consumption is at minimum level.



TYPE	A	B	C	D	E	F	MOTOR POWER (Kw)	BAND SPEED (Kw)	JET FAN MOTOR (Kw)	JET FAN FLOW (m/h)	RINSING TUNNEL LENGTH (mm)	BAND WIDTH (mm)	MACHINE WEIGHT (Kg)
TNY 3000	3452	1677	1000	1032	868	280	0.55	1,1	0,37	1200	1000	545	615

For detailed information, please see the
“Surface Finishing Consumables” brochure.



CERAMIC MEDIA

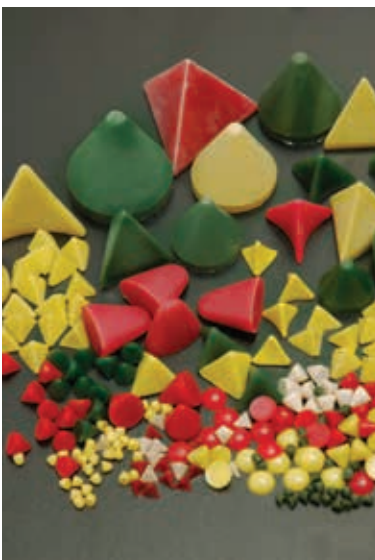
Ceramic media is used for rounding sharp edges and corners, surface grinding of hard ferrous materials such as iron, steel and its derivatives. Ceramic media has different classes and each class has different usage purpose.

Media shape and class are determined according to part dimensions, shape, surface finishing quality etc.



PORCELAIN MEDIA

This media has low porosity and high density. It is used for polishing of all metals and non-metallic parts. Wearing out rate of this media is nearly 0.



PLASTIC MEDIA

Plastic grinding media are used for the surface finishing of softer non ferrous materials such as brass, aluminum, xamac, stainless steel and copper.

Plastic media also has different classes and each class has different usage purpose.

Media shape and class are determined according to part dimensions, shape surface finishing quality etc.





For detailed information, please see the
“Surface Finishing Consumables” brochure.

DRYING AND POLISHING GRANULES

Corn cob granule: This granule is completely natural and used for drying and polishing processes. It absorbs water fast at high level.

Nut granule: It is used with suitable surface finishing pastes to reach high level polishing results of various metals.



STAINLESS STEEL MEDIA

Stainless steel media with the appropriate compound are used for the burnishing process for most metals.

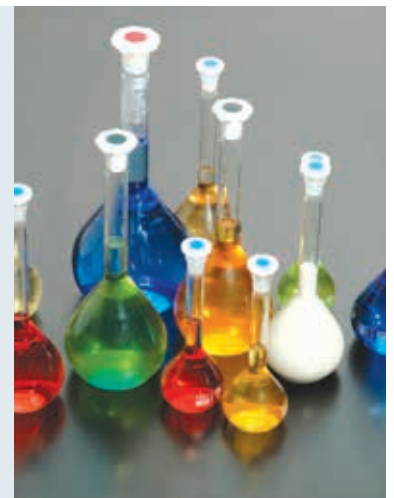
Stainless steel media has different shapes such as those, balls pins, satellites etc.

Single shape or mix of different shapes can be used depending on part type.



COMPOUNDS

Compounds are used with ceramic, plastic and porcelain media as liquid, powder and paste. The processes that are made with these compounds are metal cleaning, derusting, deoiling, deburring and polishing. Compound type is determined according to metal type and required surface quality.



Applications

DEBURRING

This process is a surface treatment applied to remove unwanted burrs and roughness on the surfaces of materials such as metal, plastic, wood, etc. during or after the production process.



POLISHING / SMOOTHING

It is a surface treatment applied to obtain a shiny surface by improving the surface roughness on the surface of a product consisting of materials such as metal and plastic at the micron level. By means of this process, smooth and very shiny surfaces are obtained.



EDGE RADIUSING

It is a surface treatment applied to rounding sharp edges and corners and obtaining soft lines in parts such as metal, plastic, wood, depending on the production technologies or processing methods.



DEGRASING / DESCALING

This process is a surface treatment that is used to remove the undesired oil and dirt layers remaining on the part after pressing or machining processes, especially in metal products. In addition, this process is used to remove the rust layer formed on metal parts that are susceptible to oxidation and are waiting in unprotected environments.



CLEANING

This process is especially a surface treatment used to remove dust and dirt layers on the surfaces of metal, plastic and wood-based parts. After this process, surfaces that are clean and suitable for the next process (coating, secondary processes, etc.) are obtained.



KROM-X[®] Process

The shining star of surface finishing



Eco friendly surface finishing for mirror finish quality



Kromaş, is one of a few worldwide producers in surface finishing field which carries on many process works in R&D department.

“Surface finishing” solutions are one of the primary problems of industrial production of different sectors.

The Krom-X process which is developed by Kromaş completes other process and cancels electropolishing by taking surface polishing quality to the highest level.

Krom-X[®] process is used for surface finishing of steel, stainless steel, copper, brass, xamak, gold, silver, plastic, semiprecious stones and many other different parts.

After Sales Services

Installation and Training

Machine installations and operator training are provided by our professional technical team at our customers plants.

Spare Parts

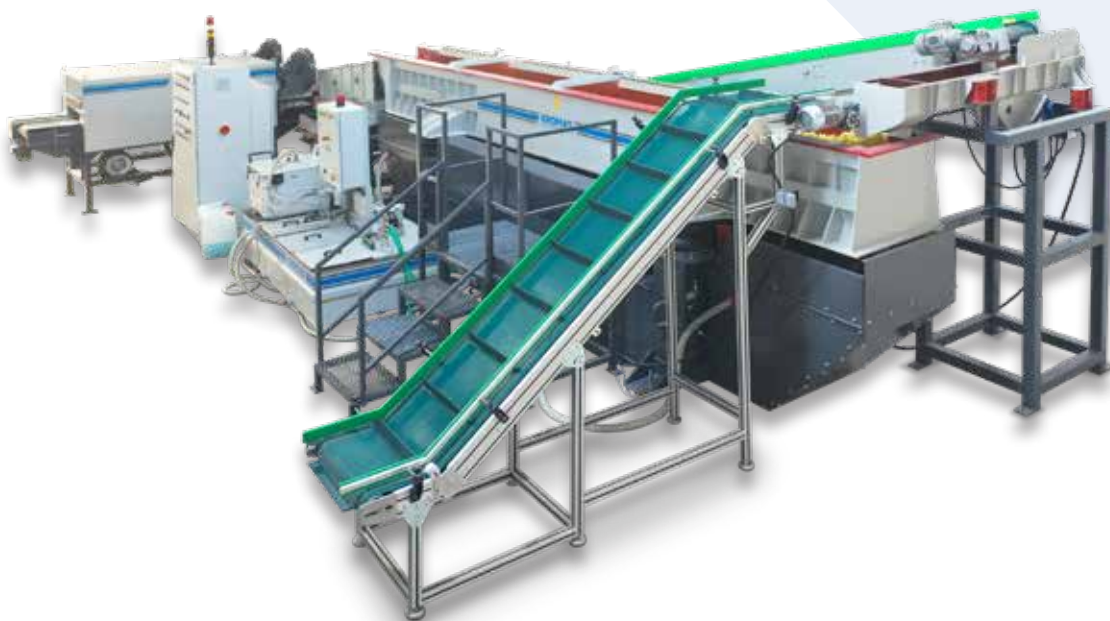
We provide all of the Kromaş machines spare parts to our customers. Parts are either delivered and installed by our own after sales services personnel or shipped to our customer's location fast in order to minimize downtime.

Maintenance and Repair Service

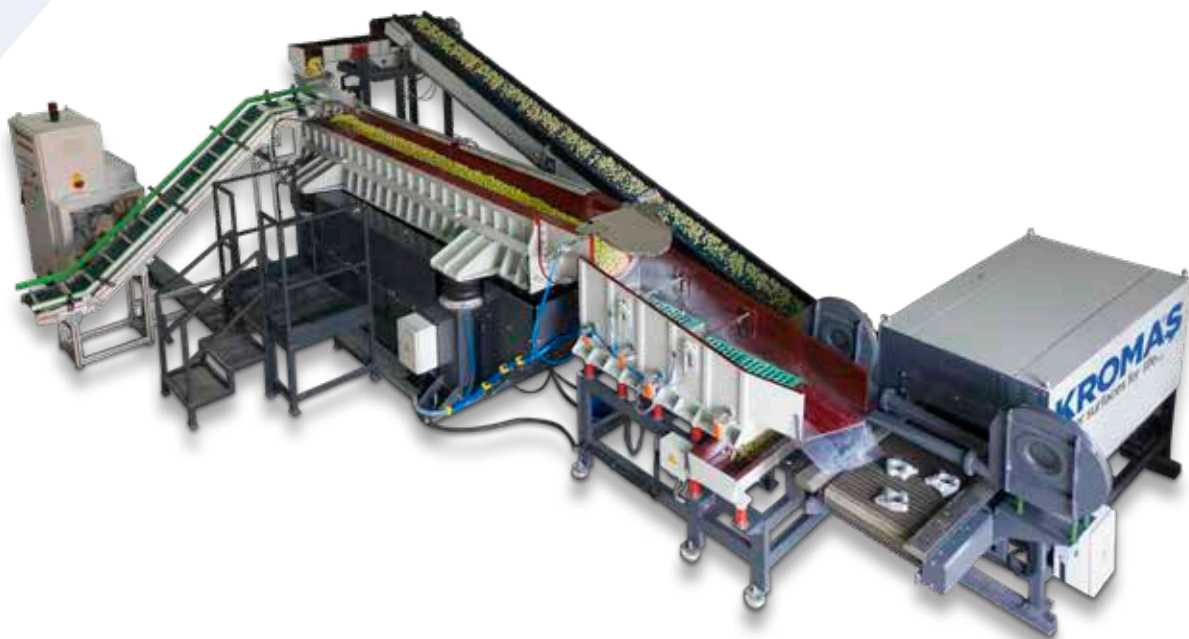
We support our customers with an experienced field service personnel at customers own location as well as our factory.



Vibratory Surface Finishing Systems



Vibratory Surface Finishing Systems



KROMAŞ®
Better surfaces for life...



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