

SUPERMINOR

SMR

MSF

MASS

SURFACE FINISHING

OUR EXPERIENCE, YOUR RESULTS





S M R
FOR WET PROCESSES
MICROFLUID

The background is a close-up photograph of numerous small, reddish-brown, angular media pieces, likely ceramic or plastic, used in industrial washing processes. A large, semi-transparent, light-colored curved shape is overlaid on the left side of the image.

S M R
**FOR WET PROCESSES
WITH PLASTIC OR
CERAMIC MEDIA**



SMR **FOR SUPERFINISHING** **DRY PROCESSES**

SMR
**FOR SELF-BARRELLING
PROCESSES**



SMR SUPERMINOR

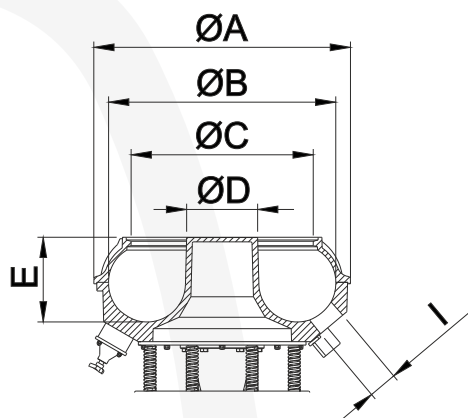
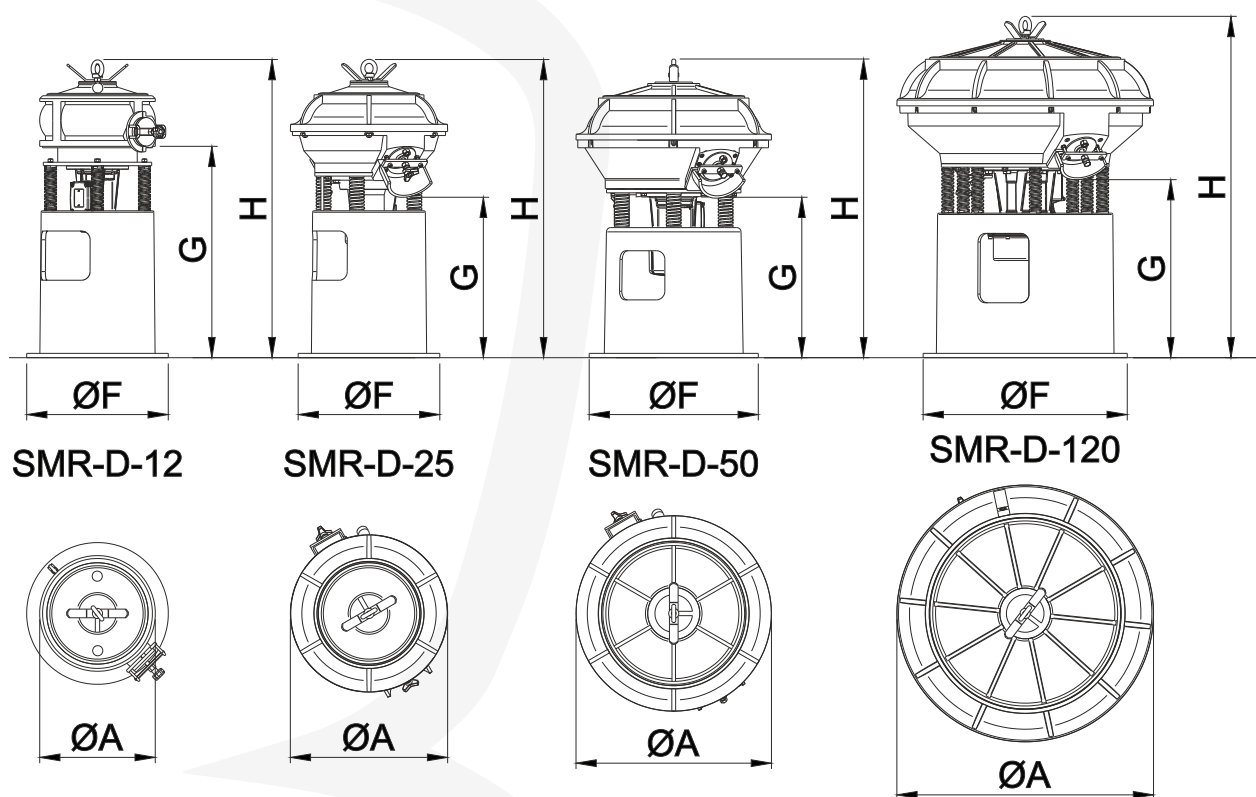


SUPERMINOR SMR is a series of circular vibratory machines for the mass surface treatment, including a range of four models with the capacity from 12 to 120 lt. Every SUPERMINOR SMR machine distinguishes itself not only for the “omega” section of the working bowl but also for the practicality of its modern and functional design, which allows the configuration of the machine as an independent unit, arranged for manual separation and extraction of pieces.

The machine can also be configured together with the optional accessory UNID-MICRO-TC, in order to obtain an automatic separation (compatibly with the dimensions of the articles compared with the “media” of treatment). In fact the machines of the SUPERMINOR SMR series foresee a rapid opening port, for the total discharge of their contents (compatibly with the dimensions of the contents of the working bowl compared to the port diameter) which particularly facilitates the operator who prefers the configuration of the machine with the optional accessory UNID-MICRO-TC, as the mass can directly move from the working bowl to the vibrating screen. The body of the working bowl is normally full polyurethane, anti-abrasive and anti-oil and, with the same elastomer, is also realized the upper part and the basement.

The shape of the upper part of the working bowl allows to configurate the machine with a cover (optional), named PLASTO-LID, which allows a fairly good sound proofing and has the function of sprinkling protection or anti-dust cover, depending on the process operated with the machine (with or without water).

The machine can be configurated for treatments without water with a plug instead of the discharging filter and without valve or for treatments with water with the discharging filter, relative valve, pipe for water feeding into the bowl and relative valve.



F=Ø max. basement

Overall dimensions - mm

Tot. Inst. power Tank capacity

Modello/Model	A	B	C	D	E	F	G	H	I	KW	L
SMR-D-12	ø400	ø375	ø327	ø 85	155	ø490	760	1030	ø58	0,26	10
SMR-D-25	ø545	ø460	ø320	ø120	210	ø490	640	1075	ø77	0,43	20
SMR-D-50	ø675	ø590	ø460	ø165	248	ø590	595	1075	ø98	0,525	36
SMR-D-120	ø890	ø790	ø630	ø250	295	ø710	655	1220	ø98	1,1	100
SMR-D-120-GML	ø890	ø790	ø630	ø250	295	ø710	645	1210	ø98	0,73	100
SMR-D-120-GMLD	ø890	ø790	ø630	ø250	295	ø710	645	1210	ø98	0,525	100

The model SMR-D-12 differs from other models by type of valve, and the design of the tank bottom door, for reasons related to its small capacity.



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Plastolid

To unlock the Plastolid cover it is sufficient to unscrew the handwheel.



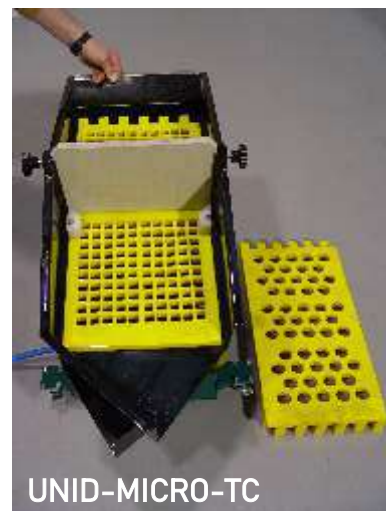
Plastolid

To release the cover from the quick locking handwheel it is sufficient to slip it out from the proper grooving.

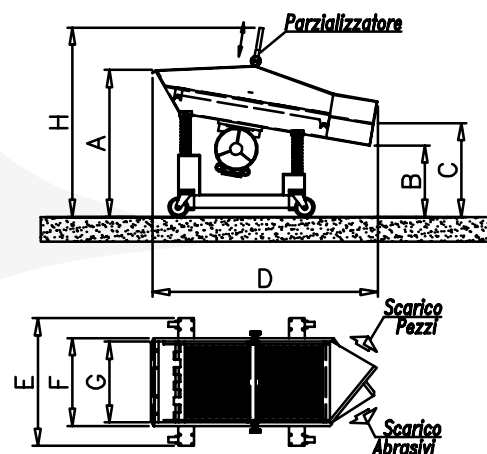


Plastolid

The Plastolid cover can be easily removed from its housing, since it has been suitably shaped to reduce sprinkles, dust and vibrations.



UNID-MICRO-TC



UNID-MICRO-TC - mm

A	B	C	D	E	F	G	H	KW
592	313	404	990	516	356	326	750	0,4

PU-GRID

Foro circolare
Round hole

FT

Foro rettangolare
Rectangular hole

FR

Foro oblungo
Oblong hole

FO

Foro quadrato
Square hole

FQ

A heterogeneous "library" of grids at disposal

UNID-MICRO-TC is characterised by the particular design of the PU interchangeable grids (patent). The above table shows the main available shapes of PU grids - for the available sizes see table below.

Polyurethane is an abrasion-proof material, it is elastic and suitable to avoid abrasions during the contact with the items to separate.

Available sizes (other on demand):

Workable sizes (other on demand):									
Foro/Hole FT :	05	010	012	020	025	030	035	040	050
Foro/Hole FR :	6x18	20x30	22x40						
Foro/Hole FO :	4x33	5x33	6x18						
Foro/Hole FQ :	3	4	5	6	7	8	9	10	11
	26	27	28	30	32	35	40	50	

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Cap replacing the filter where required for cycle needs. requirements.



Exhaust filter, available in several sizes and hole shapes.



The Superminor SMR machines series highlight the most recent Rollwasch® design and are made of PU with different characteristics to ensure:

- high vibratory efficiency and lifetime of the working bowl;
- mechanical resistance and parallel vibration absorption from the basement;
- high resistance to UV rays (higher assurance with BLACK colour);
- high duration in time, corrosion absence (surfaces don't require painting, are not in steel);
- value maintained in time;
- absence of ordinary maintenance of the motorvibrator (long life technology);



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Frontal view of the control board of the MP/MPE series, 230V - 50Hz or 400V - 50 Hz depending from the type of machine.



Frontal view of the control board of the TCS series, 230V - 50Hz or 400V - 50 Hz depending from the type of machine.



Front view of the control board MP-GM series, 230V - 50Hz - single-phase.

The control boards of the Superminor SMR machines are the result of a project that has the purpose to simplify and unify the most different use possibilities into a single solution. From a statistical macro-analysis of the most frequent combinations between machine and accessories, we have designed the new MP (or MPE in the expanded version) control board that is equipped with a microprocessor and a control digital panel always combined with a frequency converter.

A control board equipped with microprocessor (or PLC) offers the advantage to be programmed, within fairly wide limits, according to the process requirements and to the used optional accessories by simply loading the most suitable software. The same control panel, equipped with frequency converter (or INVERTER), extends the use possibilities of a vibrating machine, since it allows a more flexible management, so that to adjust to any unforeseen variables with a simple "clic".

The TCS control board has all the same features already present in MP and MPE series control panels, with the following differences and additions: HMI - Man Machine Interface - Through Color Touch Screen Panel Inside the picture is available: A set of cables to connect to the TOUCH panel, microprocessor and inverter in software modification or operating system upgrade mode. These features make it possible, through any PC (not supplied) to the user, to:

to. Upload Open Source operating system updates - available free of charge on the Internet; b. Load variations that may be agreed upon with Rollwasch (supply of software with variations could involve participation in costs) for work program.

To increase the safety and the isolation class of the control board, usually the cases are made of plastic material, excellent insulation. The IP55 isolation class is moreover a very good standard for the vibrating machines type of use.



!"E" - magnetothermal switch with start and stop functions, with thermal protection of the motorvibrator;

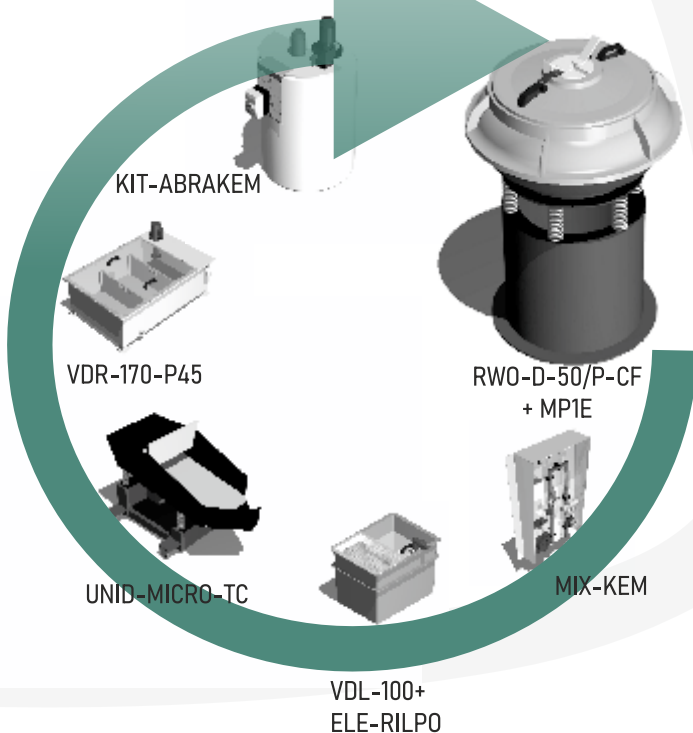
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The control panel on the frontal side is equipped with function keys and a wide display for the best flexibility and working completeness.



Functional keypad for control board of the MP-GM version.



The Superminor SMR machines are manufactured in "P/CF" version (with wire – without any electric control) and can be combined with four types of standard solutions, respectively:

"E" – magnetothermic switch with start and stop functions, with thermic protection of the motorvibrator;

"MP" – Control board equipped with microprocessor, inverter, control panel with wide display and function keys, main and emergency (red/yellow) switch, IP55 class protection with high insulation degree thanks to the manufacturing material, specific and customized software for every single supply. Input/output presetting suitable for only one accessory of defined type.

"MPE" – Control board like the "MP" type, but with input/output expansion in order to run max. two/three accessories of defined type.

The supply of the digital control board foresees also the language customization of the support information both of the controls and of the messages, such as the motor rotation speed. The standard software 2.0 release allows by means of a function-key to switch from a low speed to a high speed and vice versa, the speeds are pre-set.

The machine working hours (hours counter function), etc. For further details about the possible "Machine/Accessories" combinations that can be run by the MP/MPE control boards, check with our technical/commercial department or ask for a quotation!

"MP-GM" – Control board equipped with microprocessor, inverter, functional keypad, potentiometer for speed control, display and start/stop button, main and emergency (red/yellow) switch, IP55 class protection with high insulation degree, specific software.



MACHINE ID/...TCS... CT

It has all the same features already present in the TCS series control panels, with the following additions: a. Module "C" controls the speed of the inverter with a simple analog potentiometer carried out outside the panel; b. "T" module – facilitates the operator in the timing change inputs (key + and key -); c. "CT" module – both options mentioned above



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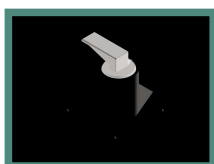
Caratteristiche standard delle macchine Standard features of the machines			Soluzioni disponibili per il comando elettrico Available solutions for electric control		
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Macchine Standard Tipo	Versione	Qualità PU	Codice Comando Interruttore magnetotermico "E"	Codice Quadro Comandi "MP" (PLC+Inverter) oppure "MPE" (idem + Espansione)	Codice Quadro Comandi "TCS-E" (Touch+PLC+Inverter) completo di espansione
Standard Machines Type	Version	PU quality	Magnetothermic Switch "E" code	Control Board Micro Processor «MP» (PLC+inverter) or «MPE» (same + Expansion)	Control Board Touch Screen «TCS-E» (Touch+PLC+Inverter) complete with expansion
SMR-D-12/P-CF	PRO	Thermo Plus Royal	E1	MP0 o/or MP0E	TCS-0-E
SMR-D-12-GM/P-CF	GM	Thermo Plus Royal	E1	MP0 o/or MP0E	TCS-0-E
SMR-D-25/P-CF	PRO	Thermo Plus Royal	E1	MP1 o/or MP1E	TCS-1-E
SMR-D-25-GM/P-CF	GM	Thermo Plus Royal	E1	MP1 o/or MP1E	TCS-1-E
SMR-D-50/P-CF	PRO	Thermo Plus Royal	E1	MP1 o/or MP1E	TCS-1-E
SMR-D-50-GM/P-CF	GM	Thermo Plus Royal	E1	MP1 o/or MP1E	TCS-1-E
SMR-D-120/P-CF	PRO	Thermo Plus Royal	E2	MP2 o/or MP2E	TCS-2-E
SMR-D-120-GM/P-CF	GM	Thermo Plus Royal	E2	MP2 o/or MP2E	TCS-2-E
SMR-D-120-GML/P-CF	GML	Thermo Plus Royal	E2/L	MP1 o/or MP1E	TCS-1-E
SMR-D-120-GMLD/P-CF	GMLD	Thermo Plus Royal	E2/L	MP1 o/or MP1E	TCS-1-E
SMR-D-120-DB/P-CF	PRO	Thermo Plus Royal	E2	MP2 o/or MP2E	TCS-2-E
SMR-D-120-DB-GM/P-CF	GM	Thermo Plus Royal	E2	MP2 o/or MP2E	TCS-2-E
Doppia bombatura - Double edged					

Principali accessori specifici per Superminor Main specific accessories for Superminor			Altri accessori opzionali comuni Other common optional accessories			
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Macchina Standard Tipo Superminor SMR	Codice Copertura opzionale in PU	Valvola completa in PU opzionale - Codice "VP"	Codice vaglio opzionale	Valvola	Codice di stazione dosaggio automatico acqua/composto (esempio)	Codice Vasca di riciclo acqua/composto
Machine Standard Type Superminor SMR	PU optional cover code	PU complete valve Optional - Code "VP"	Optional Sieving unit Code	Valve	Automatic Dosing station water/compound Code (example)	Recycling tank water/compound Code
SMR-D-12/P-CF	PLASTO-LID-12	[1]	UNID-MICRO-TC	[1]	MIX-KEM	VDR
SMR-D-12-GM/P-CF	PLASTO-LID-12	[2]	UNID-MICRO-TC	[2]	MIX-KEM	VDR
SMR-D-25/P-CF	PLASTO-LID-25	standard	UNID-MICRO-TC	PRO	MIX-KEM	VDR
SMR-D-25-GM/P-CF	PLASTO-LID-25	su richiesta/on demand (VP)	UNID-MICRO-TC	GM	MIX-KEM	VDR
SMR-D-50/P-CF	PLASTO-LID-50	standard	UNID-MICRO-TC	PRO	MIX-KEM	VDR
SMR-D-50-GM/P-CF	PLASTO-LID-50	su richiesta/on demand (VP)	UNID-MICRO-TC	GM	MIX-KEM	VDR
SMR-D-120/P-CF	PLASTO-LID-120	standard	UNID-MICRO-TC	PRO	MIX-KEM	VDR
SMR-D-120-GM/P-CF	PLASTO-LID-120	su richiesta/on demand (VP)	UNID-MICRO-TC	GM	MIX-KEM	VDR
SMR-D-120-GML/P-CF	PLASTO-LID-120	su richiesta/on demand (VP)	UNID-MICRO-TC	GM	MIX-KEM	VDR
SMR-D-120-GMLD/P-CF	PLASTO-LID-120	su richiesta/on demand (VP)	UNID-MICRO-TC	GM	MIX-KEM	VDR

SMR-D-25; SMR-D-50; SMR-D-120: exhaust valve



Exhaust valve GM version



Exhaust valve PRO version

The model SMR-D-12 differs from other models by type of valve, and the design of the tank bottom door, for reasons related to its small capacity.

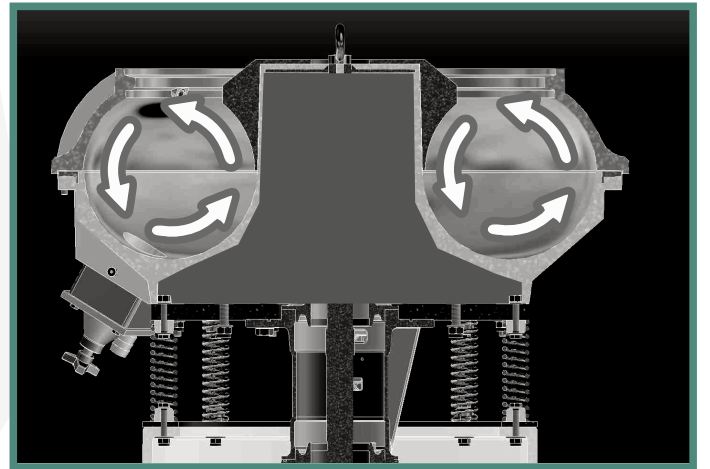
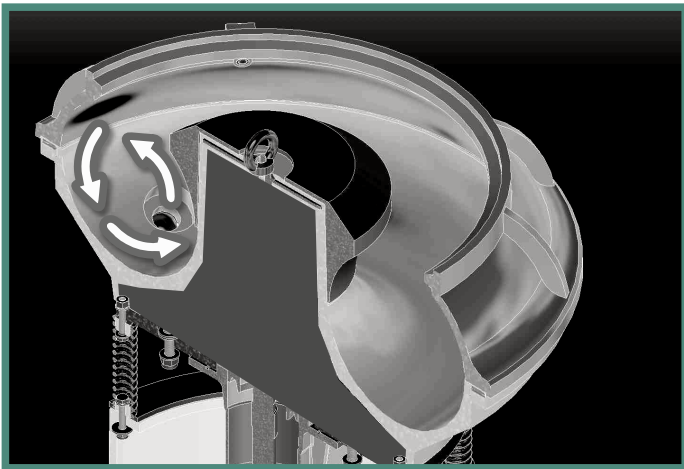
[1] The PRO version has a complete outlet-door on the bowl, while the GM version;

[2] has the tank without door - both models are equipped with a PU filter and an exhaust valve (ball).

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SMR|DB



Superminor SMR-D-120-DB machines, with double edge of the tank and of the central dome, enrich the already complete Superminor range.



S M R

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Replacing the exhaust filter (or cap) of all Superminor is a simple operation that can be done with a thin screwdriver.



S M R SUPERMINOR

ROLL
WASCH



Superminor machines are designed to be as versatile as possible, even for eco-sustainable deburring cycles of small parts with oil traces.



S M R SUPERMINOR



The fields of use of Superminor machines are numerous, as in the ABRAKEM processes on components for weapons, such as break-action rifle cases.

SMR SUPERMINOR



1



2



3

Some examples of plants with the machines of Superminor SMR series.

An example of a plant solution type RW-1776 for vibratory finishing of articles of various types and metal alloys, split into two lines, respectively:

a. for articles compatible with the drying vibrator with warm absorbent granulates (1. above left); b. for articles compatible with the centrifugal drying, with hot air (1. low right);

The plant is composed by a vibro-conveyor (2.) to transport the treated pieces, with continuous recirculation of passivating solution.

However, the possible personalizations are countless.

An example (3.) of self barrelling process, with special antishock technology Microfluid (Patent pending - I).



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Modultek: modular accessories; Rollnoise: sound proofing solutions

Few examples:

1. vibro-transporter type «VIBRO-CONVEYOR-SLIM»;
2. DOS-KEM-QF column, a technologic support frame designed to hold the control panel of the machine and equipped with a metering station for automatic processes such QF (Abragrip phase and final automatic rinsing phase with water / compound mixture);
3. Automatic dosing station for mixing water and liquid chemical compound type DOS-KEM-150;
4. Superminor SMR-ES-50-D, in special design with raised basement;
5. Stainless steel tank for submerged rinsing of workpieces, complete of transport band, series UNIVAR-PVC.

SMR SUPERMINOR

ROLL
WASCH



2



1



3



4



5



6

Few examples: 1. example of recycling-tank VDR-80-P45/PE with capacity of 80 lts.;

2. an example of a modular accessory for dividing the basin into several sectors, called "carousel" - by means of the media, the "carousel" moves clockwise inside the process tank;

3. Combined dosing station, MIX-KEM-80-GM together with KIT-ABRAKEM;

4. Automatic station for dosing and mixing water and liquid compound, MIX-KEM-80-GM;

5. Recycling tank with electro-pump and capacity of 170 lts.;

6. example of VDS-160-MIX tank for the filtration of the suspended solids contained in the effluents discharged from the machine (suitable for processes type MICROFLUID - Patent Pending - I);



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