

# SICOR

## RWO-AS

MSF  
MASS  
SURFACE FINISHING

OUR EXPERIENCE, YOUR RESULTS





**SICOR**  
**FOR CONTINUOUS CYCLE**  
**DRYING AUTOMATIC**  
**PROCESSES**

**RWO-AS**  
**SICOR**



**SICOR**  
**FOR DRYING AUTOMATIC**  
**PROCESSES WITH**  
**MAIS GRAIN**





**RWO-AS**  
**SICOR**

**SICOR**  
**FOR DRYING OR DRY**  
**FINISHING AUTOMATIC**  
**PROCESSES**



RWO-AS-1/SPU - a vibratory drier with high capacity, suitable to carry out batch or continuous cycles.



RWO-AS-3/G - unloading phase of dried brass articles



RWO-AS-4-GM/SR - the smallest version, without lining, has a "bridge" removable flap.

Sicor is a series of vibratory machines for the mass drying treatment of the surfaces with semiautomatic extraction and separation of the dried pieces.

Sicor series stands out for the use of absorbing grits that, thanks to the vibration, "massage" the surface of the components and absorb the water so that the pieces remain free from saline and calcareous marks or residues. Thanks to the pieces inlet chute, it is possible to carry out continuous drying cycles through the connection of the separation grid with the pieces extraction ramp by suitably positioning the movable connection grid.

If the drying machine has to carry out not continuous cycles of a single batch of pieces, it is possible to set the machine so that the pieces remains in the tank for the required cycle time by suitably positioning the movable connection grid.

The pieces could be subsequently unloaded by connecting the separation and extraction grid with the ramp end through the positioning of the movable connection grid.

In order to satisfy the most different requirements, the Sicor series includes five models with different capacities, three are available in PRO (Professional) version and two in GM (Global Machine) version.





# RWO-AS SICOR



RWO-SA-220 + SlideWay + AS-4-GM/SR - example of complete plant configuration, with the smallest automatic machines of the range.



OUTRACE - optional dripping channel placed outside the tank, compatible with the PRO versions.



RWO-AS-3/P + 2PNEU-FLAPS-AS3 machine lined with hot moulded polyurethane and double pneumatic flap (optional).

The drying of the absorbent grit is obtained through the contact with a series of resistances placed under the fixed grid, that is immediately after the pieces ramp. The design of the Sicor dryers allows the perfect compatibility with the most important and modern Rollwasch machines. According to the type and quantity of pieces to be dried daily, the tank of the **Sicor** series can be without (/SR) or with antishock lining. The antishock linings of the Sicor machines can be made of vulcanized rubber (/G) of special composition and thickness, or in sprayed PU (/SPU) or in hot moulded PU (/P – only AS3). The machine can be equipped with the most suitable electric control according to the table reported in this catalogue; moreover the machine can also be supplied with different accessories.

It is possible to set the Sicor machines with different **AUTOMATION** levels, both as a single unit and as a component of **SYSTEMS** of different types. Some examples are the double automatic flap, to run batch cycle of variable time, to subsequently unload all the contents without any sticking problem. The useful optional thermostat assures cycles with constant and controlled temperatures. The **OUTRACE** external pre-dripping channel, available on all the **PRO** machines, assures efficient continuous cycles also of difficult articles. The **UNIVAR-PVC** rinsing tank allows the unloading of passivated or protected articles, not only dried.

The GL series is characterized by a 100% opening (GL = Grand Light) with the maximum "LIGHT" transit.

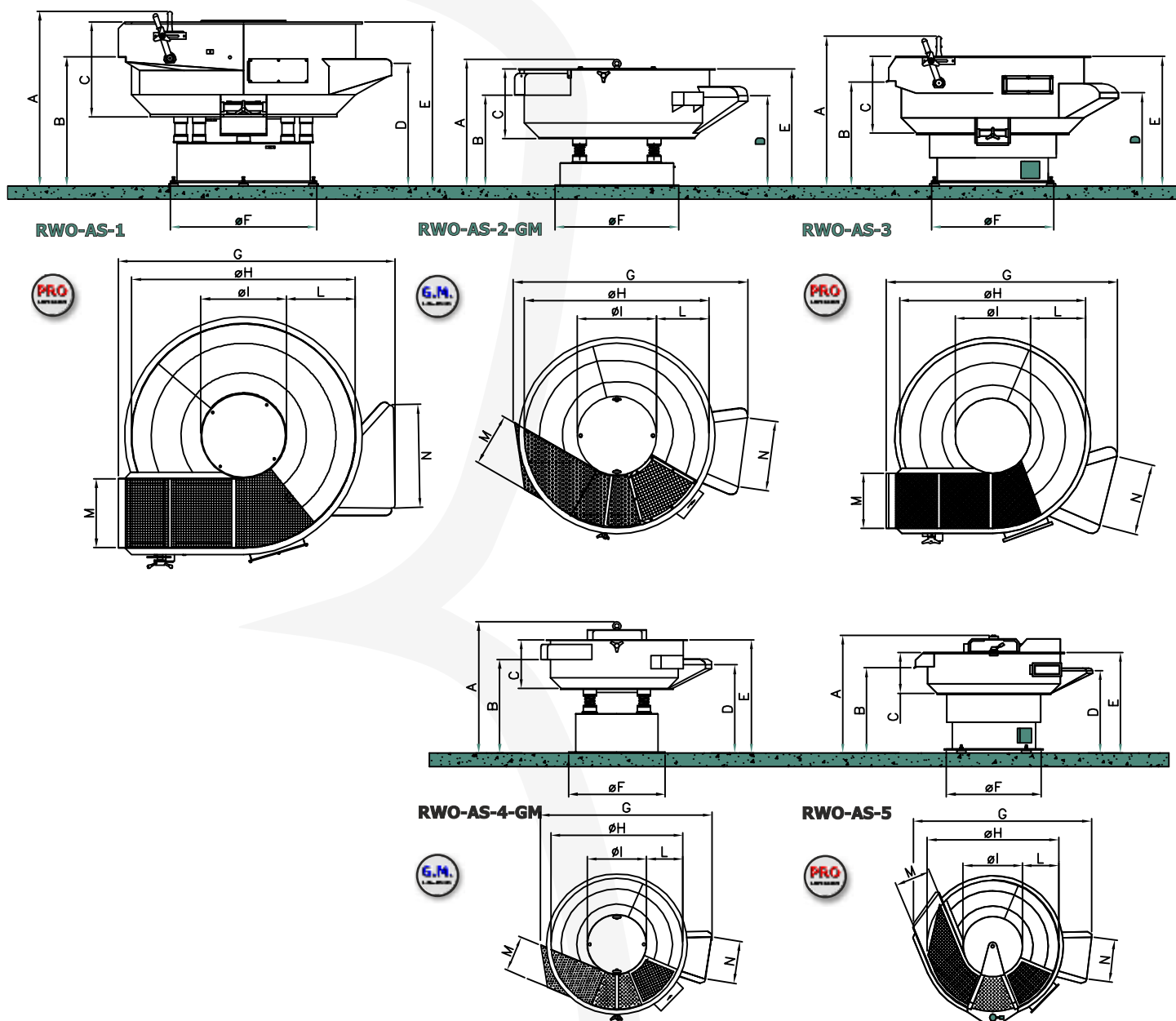


[1] GL grid closed  
[2] Partial GL grid  
[3] GL grid open

# RWO-AS

## SICOR

ROLL  
WASCH

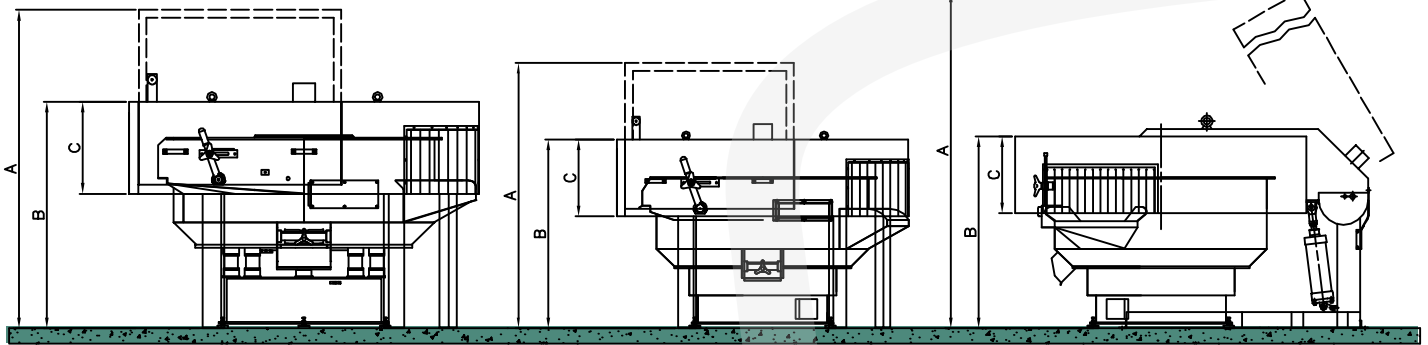


Dimensioni di ingombro per RWO-AS espresse in mm

RWO-AS overall dimensions in mm

Modello/Model	A	B	C	D	E	F	G	H	I	L	M	N	Pot. tot. inst.	Cap. vasca
													Tot. Inst. power KW	Tank capacity L
<b>RWO-AS-1</b>	1325	980	720	930	1425	1110	2100	1690	650	520	520	780	6+7,5	700
<b>RWO-AS-1-GL</b>	1325	980	720	930	1425	1110	2100	1690	650	520	520	780	6+7,5	700
<b>RWO-AS-2-GM</b>	960	690	530	685	890	940	1780	1400	600	400	400	525	2,0+2,1	250
<b>RWO-AS-3</b>	1136	786	580	707	982	980	1750	1407	571	418	418	540	4,1+5	310
<b>RWO-AS-3-GL</b>	1136	786	580	707	982	980	1750	1407	571	418	418	540	4,1+5	310
<b>RWO-AS-4-GM</b>	1000	710	370	670	860	730	1300	1000	450	275	270	320	0,52+1,65	90
<b>RWO-AS-5</b>	930	642	310	625	740	750	1350	995	450	273	273	320	1,2+1,5	95

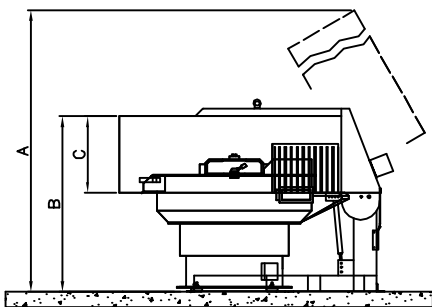
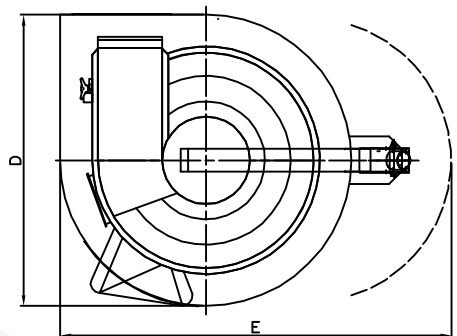
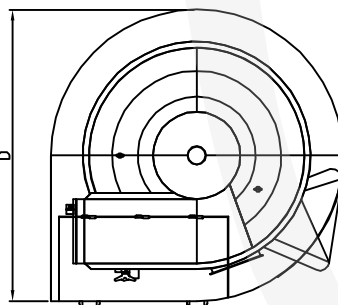
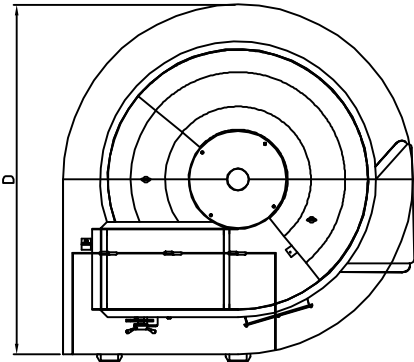
The GL series is characterized by a 100% opening (GL = Grand Light) with the maximum "LIGHT" transit.



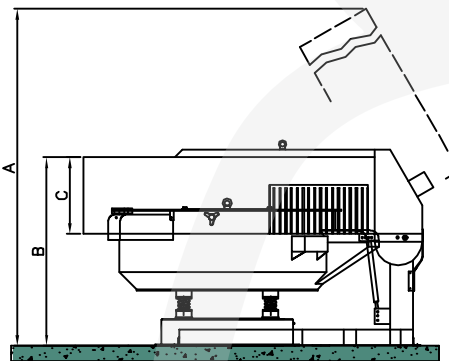
**AFOCOP-AS-1-DUST**

**AFOCOP-AS-3-DUST**

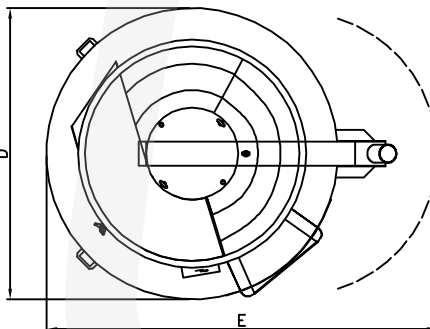
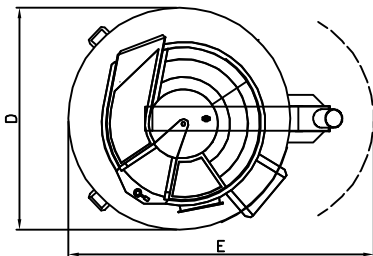
**AFOCOP-AS-3-DUST-PLUS**



**AFOCOP-AS-4-DUST**  
**AFOCOP-AS-5-DUST**



**AFOCOP-AS-2-DUST**



Dimensioni di ingombro AFOCOP per RWO-AS espresse in mm

RWO-AS AFOCOP overall dimensions in mm

Modello/Model	A	B	C	D	E
AFOCOP-AS-1/DUST	2080	1475	600	2280	
AFOCOP-AS-3/DUST	1860	1230	500	1900	
AFOCOP-AS-3/DUST/PLUS	2960	1250	500	1900	2550
AFOCOP-AS-2/DUST	2790	1230	500	1900	2550
AFOCOP-AS-5/DUST	2295	1150	500	1450	2100
AFOCOP-AS-4/DUST	2790	1150	500	1450	2100

There are many possible combinations and solutions complete with accessories - ask for a layout of your specific solution !



RWO-AS  
SICOR



SICOR  
OUTRACE !



# RWO-AS

## SICOR

The control boards of the SICOR vibratory dryers 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-AS-A (or MP-AS-T in the version with thermostat) control board that is equipped with a microprocessor and a control 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”.



A



B

[A] Frontal view of the new control board of the MP-AS-A series, 400V – 50HZ version – three-phase. Basic solution including frequency converter, with automatic cooling after programmed time of the heating group.

[B] Frontal view of the new control board of the MP-AS-T series, 400V – 50HZ version – three-phase. Complete solution including frequency converter, with automatic cooling after programmed time of the heating group, and thermostat to control the drying temperature.

# RWO-AS SICOR



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

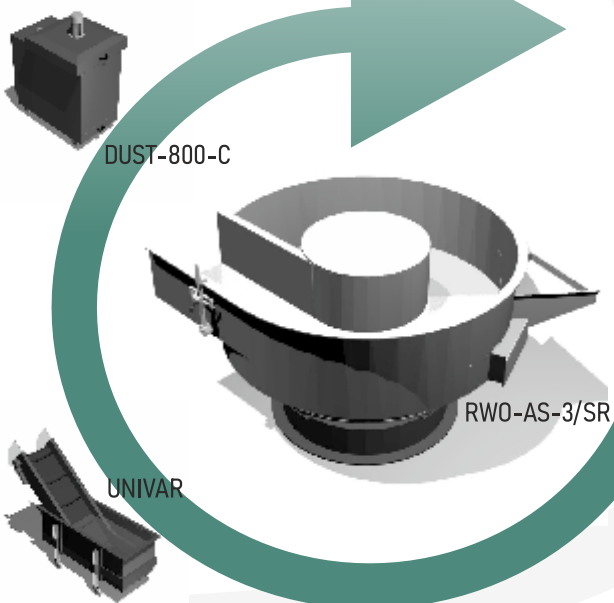
The SICOR vibratory drying machines are manufactured in "...CF" version (with wire – without any electric control) and can be combined with three types of standard solutions, respectively:

"AS\_-E" – double magnetothermic switch with start and stop functions, with thermic protection of the motorvibrator and of the heating group (separate controls);

"MP-AS-A" – Control board equipped with microprocessor, inverter, control panel with numerical display and potentiometer, main and emergency switch (red/yellow), specific and customized software for every single supply. Temporized stop with automatic cooling function of the heating group.

"MP-AS-T" – Control board like the above, but including an electronic-digital thermostat.

"ES" control boards special execution - The Sicor machines are often foreseen in extremely automated systems and, furthermore, can be set with special accessories such as, for example, the device "2-PNEU-FLAP-AS-3" which software requires particular PLC with special connections, sensors, controls and alarms. In this case it is necessary to use particular control boards in special execution instead of the standard ones.



AS- E: two magnetothermic switch. One for the motorvibrator and one for the heating group. To switch-on the heating group it is necessary that the motorvibrator magnetothermic switch is turned on, the heating group can not stay switched-on if the motorvibrator is off.





Caratteristiche standard delle macchine (colore RAL7035)  
Standard features of the machines (colour RAL7035)

Soluzioni disponibili per il comando elettrico  
Available solutions for electric control

Macchine Standard Tipo	Versione	Qualità rivestimento PU	Codice Comando Interruttore magnetotermico "AS_-E"	Codice Quadro Comandi "MPA" (PLC+Inverter) max 1 accessorio	Codice Quadro Comandi "MPT" (PLC+Inverter) ATC + max 1 accessorio
Standard Machines Type	Version	PU lining type	Magnetothermic Switch "AS_-E"	Control Board "MPA" code (PLC+inverter) max 1 accessory	Control Board "MPT" code (PLC+inverter) ATC+max.1 accessory
RWO-AS-5/SR-CF	PRO	Senza Riv./Without lining	AS5-E	MP-AS-2A	MP-AS-2T
RWO-AS-5/G-CF	PRO	Gomma/Rubber	AS5-E	MP-AS-2A	MP-AS-2T
RWO-AS-5/SPU-CF*	PRO	Spray-PU*	AS5-E	MP-AS-2A	MP-AS-2T
RWO-AS-4-GM/SR-CF	GM	Senza Riv./Without lining	AS4-E	MP-AS-1A	MP-AS-1T
RWO-AS-4-GM/G-CF	GM	Gomma/Rubber	AS4-E	MP-AS-1A	MP-AS-1T
RWO-AS-3/SR-CF	PRO	Senza Riv./Without lining	AS3-E	MP-AS-4A	MP-AS-4T
RWO-AS-3/G-CF	PRO	Gomma/Rubber	AS3-E	MP-AS-4A	MP-AS-4T
RWO-AS-3/P-CF	PRO	PU thermo plus royal	AS3-E	MP-AS-4A	MP-AS-4T
RWO-AS-3/SPU-CF*	PRO	Spray-PU*	AS3-E	MP-AS-4A	MP-AS-4T
RWO-AS-2-GM/SR-CF	GM	Senza Riv./Without lining	AS2-E	MP-AS-3A	MP-AS-3T
RWO-AS-2-GM/G-CF	GM	Gomma/Rubber	AS2-E	MP-AS-3A	MP-AS-3T
RWO-AS-1/SR-CF	PRO	Senza Riv./Without lining	AS1-E	MP-AS-8A	MP-AS-8T
RWO-AS-1/G-CF	PRO	Gomma/Rubber	AS1-E	MP-AS-8A	MP-AS-8T
RWO-AS-1/SPU-CF*	PRO	Spray-PU*	AS1-E	MP-AS-8A	MP-AS-8T

\* Su richiesta  
\* On demand

ATC: Controllo Automatico Temperatura (incluso in MPT)  
ATC: Automatic Temperature Control (included in MPT)

Principali accessori specifici per Sicor  
Main specific accessories for Sicor

Altri accessori opzionali comuni  
Other common optional accessories

Macchina Standard Tipo	Codice copertura fonoassorbente opzionale	Codice Flap pneumatico opzionale (ove previsto)	Codice Versione con rampa opzionale di pre-sgocciolatura	Aspiratore filtro	Codice di vasca per risciacquo a immersione (opz.)
Standard Machine Type	Code of optional sound proofing cover	Code of optional pneumatic flap (where foreseen)	Code Version with optional pre-dripping ramp	Aspirator filter	Code for optional rinsing tank
RWO-AS-5/SR-CF	AFOCOP-AS-5/DUST (1)	-	RWO-AS-5-Outrace/SR-CF	Dust-800-C	UNIVAR-PVC + Fribo
RWO-AS-5/G-CF	AFOCOP-AS-5/DUST (1)	-	RWO-AS-5-Outrace/G-CF	Dust-800-C	UNIVAR-PVC + Fribo
RWO-AS-5/SPU-CF*	AFOCOP-AS-5/DUST (1)	-	RWO-AS-5-Outrace/Spu-CF	Dust-800-C	UNIVAR-PVC + Fribo
RWO-AS-4/SR-CF	AFOCOP-AS-4/DUST (1)	-	-	Dust-800-C	UNIVAR-PVC + Fribo
RWO-AS-4/G-CF	AFOCOP-AS-4/DUST (1)	-	-	Dust-800-C	UNIVAR-PVC + Fribo
RWO-AS-3/SR-CF	AFOCOP-AS-3/DUST (2)	2-PNEU-FLAP-AS-3	RWO-AS-3-Outrace/SR-CF	Dust-800-C	UNIVAR-PVC + Fribo
RWO-AS-3/G-CF	AFOCOP-AS-3/DUST (2)	2-PNEU-FLAP-AS-3	RWO-AS-3-Outrace/G-CF	Dust-800-C	UNIVAR-PVC + Fribo
RWO-AS-3/P-CF	AFOCOP-AS-3/DUST (2)	2-PNEU-FLAP-AS-3	RWO-AS-3-Outrace/P-CF	Dust-800-C	UNIVAR-PVC + Fribo
RWO-AS-3/SPU-CF*	AFOCOP-AS-3/DUST (2)	2-PNEU-FLAP-AS-3	RWO-AS-3-Outrace/Spu-CF	Dust-800-C	UNIVAR-PVC + Fribo
RWO-AS-3/...	AFOCOP-AS-3/DUST-Plus (3)	2-PNEU-FLAP-AS-3	RWO-AS-3-Outrace/...	Dust-800-C	UNIVAR-PVC + Fribo
RWO-AS-2/SR-CF	AFOCOP-AS-2/DUST (1)	-	-	Dust-800-C	UNIVAR-PVC + Fribo
RWO-AS-2/G-CF	AFOCOP-AS-2/DUST (1)	-	-	Dust-800-C	UNIVAR-PVC + Fribo
RWO-AS-1/SR-CF	AFOCOP-AS-1/DUST (1)	2-PNEU-FLAP-AS-1	RWO-AS-1-Outrace/SR-CF	Dust-800-C	UNIVAR-PVC + Fribo
RWO-AS-1/G-CF	AFOCOP-AS-1/DUST (1)	2-PNEU-FLAP-AS-1	RWO-AS-1-Outrace/G-CF	Dust-800-C	UNIVAR-PVC + Fribo
RWO-AS-1/SPU-CF*	AFOCOP-AS-1/DUST (1)	2-PNEU-FLAP-AS-1	RWO-AS-1-Outrace/Spu-CF	Dust-800-C	UNIVAR-PVC + Fribo

(1) Ribaltabile; Tilting;

(2) A piano fisso con ribalta; Fixed plane with side port;

(3) Ribaltabile con cil. pneum.; Tilting with pneum. cyl.;

The new SICOR range with RWO-AS design



Some examples of systems with Orbital series machines.

1. An example of a system solution that provides a suction-cover in special execution AS3-AKZ, connected to a vacuum type filter DUST-880-C (enhanced with double-inlet type).
2. and 3. an example of system where the finished pieces from previous process are released into the tank for deep-rinsing UNIVAR-PVC, and then conveyed to the vibratory dryer RWO-AS-3/G, and finally discharged into containers placed on rollers.



# RWO-AS SICOR



**Modultek: modular accessories; Rollnoise: sound proofing solutions**

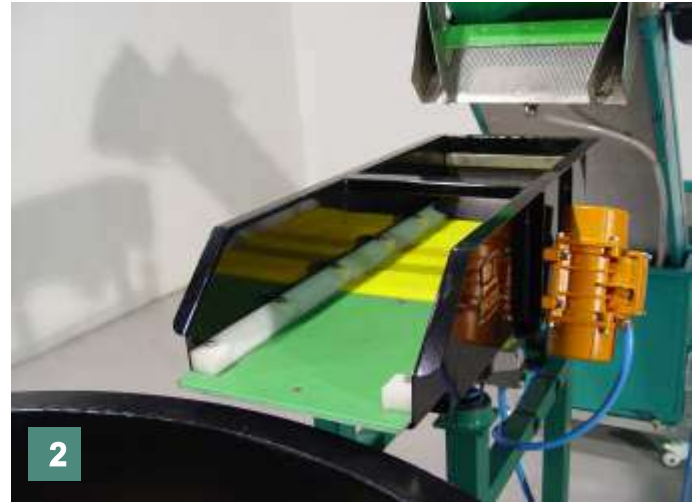
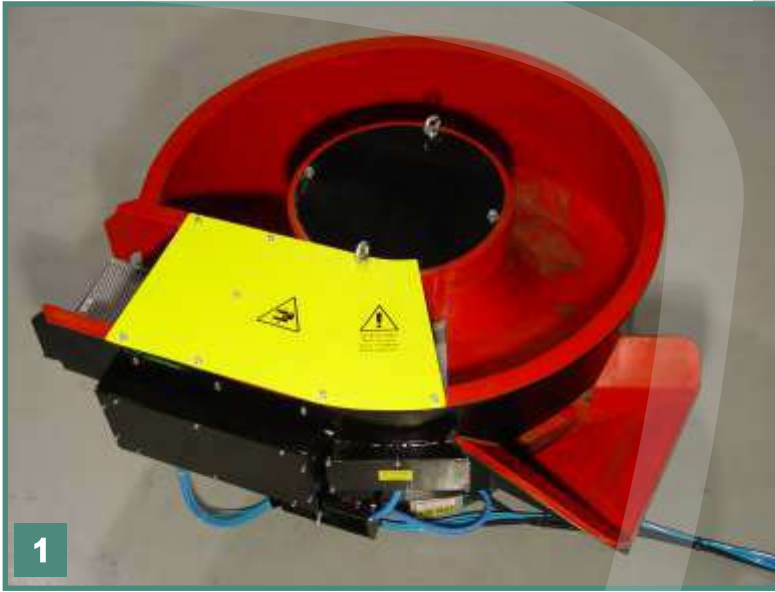
Few examples:

1. Dust aspirator for two units, DUST-880-C, also available for a single unit as DUST-800-C,
2. Tank external channel, range OUTRACE, optimal solution for draining of the pieces before drying;
3. Example of application of the raised basement FRIBO in a plant to obtain the required height,
4. There are motorized rollers and free rollers of any length and width;
5. To be connected to a vibrating machine with automatic discharge with a dryer is required accessory SLIDE-WAY.
6. The tank for deep-rinsing UNIVAR-PVC is a very useful accessory to ensure thorough rinsing to workpieces, before being dried.



# RWO-AS SICOR

ROLL  
WASCH



**Modultek: modular accessories; Rollnoise: sound proofing solutions**

A Few examples:

1. example of lining of the tank, with hot poured PU (with mould), applied standard on RWO-AS-3/PU;
2. example of vibratory channel UNID-ES-AIR for the gravitational dropping-out, with the option to take even jets of compressed air on the workpieces that are transported towards vibration;
3. example of a device for automatic discharge when drying cycles are provided in batches, such PNEU-FLAP-AS3 with anti-block parts whilst unloading.
4. example of a grid in special execution - can be custom made grids for many applications.
5. and 6. example of covers for soundproofing closed to the ground.



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