

# ROTOSYNC

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SURFACE FINISHING

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# ROTSYNC



RotoSync



Interchangeable PU filter



Effluents exhaust valve in PU

Serie RotoSync	Altezza/Ø vasca	Dimensione ruota	nr. motori	Quadro comandi	Capacità nominale	Capacità effettiva	Rivestimento std
RotoSync series	Tank height/Ø	Wheel Dimension	motor q.ty	Control Board	Nominal capacity	Real Capacity	Standard Lining
RSC-200/SP-CF	500/620Ø	fino a/up to 21"	2 x 0,65KW	MP-2E2 / TCS-2E2	200	140	SPU
RSC-240/SP-CF	500/680Ø	fino a/up to 22,5"	2 x 0,65KW	MP-2E2 / TCS-2E2	240	160	SPU
RSC-280/SP-CF	500/735Ø	fino a/up to 24"	2 x 1,00KW	MP-3E2 / TCS-3E2	280	190	SPU

**SPU:** Poliuretano a spruzzo - Sprayed Polyurethane  
**Standard:** Filtro intercambiabile in PU e valvola di scarico reflui - Interchangeable PU filter and effluents discharge valve  
**Optional:** Il quadro comandi è offerto separatamente con due varianti MP e TCS (pag. 6) come altri accessori modulari tipo le stazioni di dosaggio, vasche di riciclo, eventuali coperture, cabine, telai, distanziali, etc. (pag. 7)  
**Optional:** The control panel is offered separately with two variants MP and TCS (page 6) as other modular accessories such as dosing stations, recycling tanks, any covers, cabins, frames, collectors, etc. (page 7)

Vibratory finishing machines range RotoSync stand out from other similar machines of Rollwasch production, since they use two lateral motorvibrators with eccentric and angular adjustment. Thanks to control boards of **TCS** or **MP** series (offered separately for best choice freedom), and their electronic inverters, these machines can manage the synchronized vibratory frequency. This series is organised in three models, which differ in tank diameter and capacity.

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## ROTSYNC



The **RotoSync** series vibratory finishing machines form the basic level of the range. The machine is characterized by the presence of a fixed central shaft, on which to fix the components to be finished (initially this line of machines was born for the aluminum rims). Every time you load and unload a piece, you must first download the media through the appropriate outlet door or, possibly, with a "media smart" device (Optional).



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# ROTOSYNC



RotoSync PL

Serie RotoSync	Altezza/Ø vasca	Dimensione ruota	nr. motori	Quadro comandi	Capacità nominale	Capacità effettiva	Rivestimento std
RotoSync series	Tank height/Ø	Wheel Dimension	motor q.ty	Control Board	Nominal capacity	Real Capacity	Standard Lining
RSC-200/SP-CF	500/620Ø	fino a/up to 21"	2 x 0,65KW	MP-2E2 / TCS-2E2	200	140	SPU
RSC-240/SP-CF	500/680Ø	fino a/up to 22,5"	2 x 0,65KW	MP-2E2 / TCS-2E2	240	160	SPU
RSC-280/SP-CF	500/735Ø	fino a/up to 24"	2 x 1,00KW	MP-3E2 / TCS-3E2	280	190	SPU

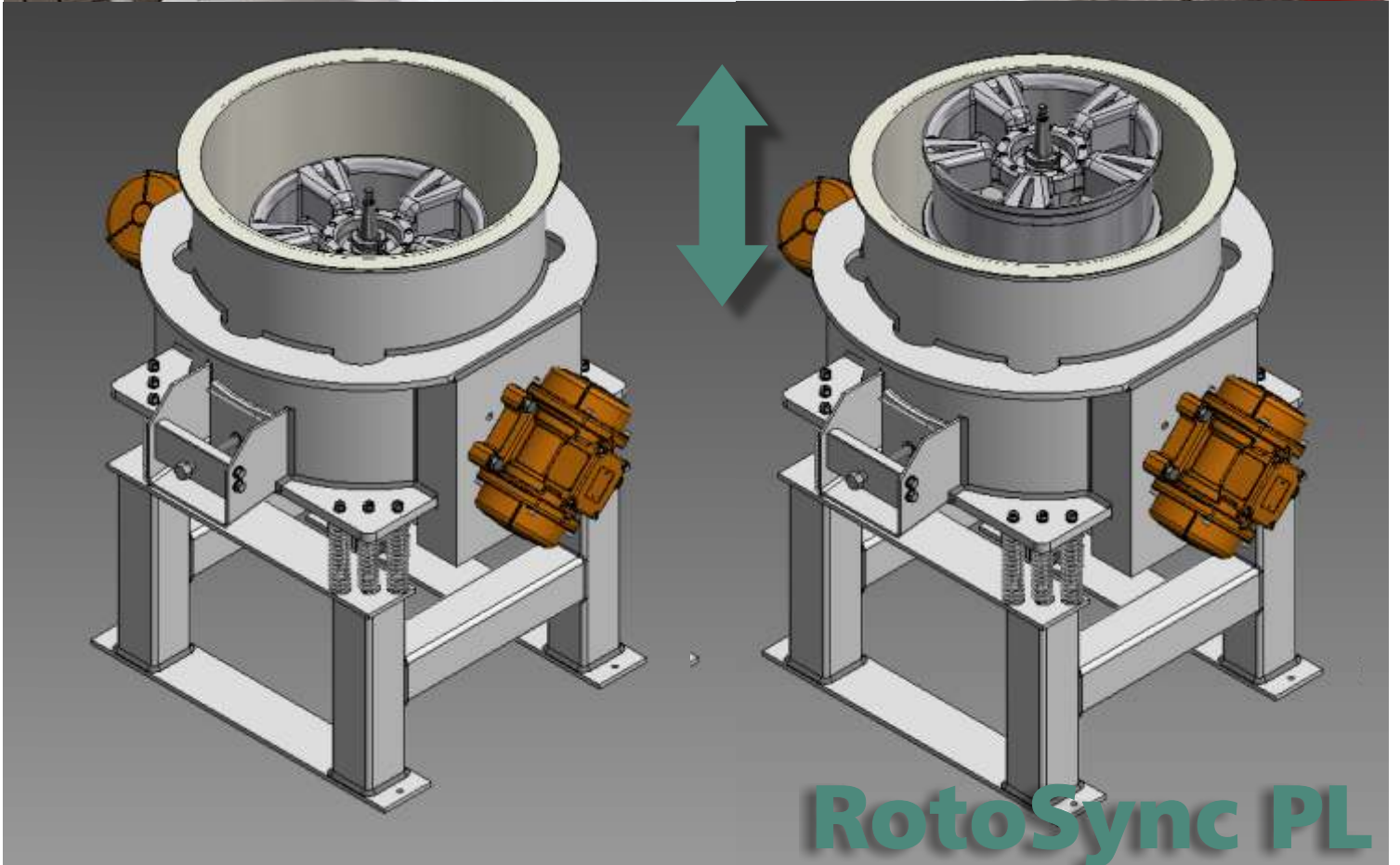
**SPU:** Poliuretano a spruzzo - Sprayed Polyurethane  
**Standard:** Filtro intercambiabile in PU e valvola di scarico reflui - Interchangeable PU filter and effluents discharge valve  
**Optional:** Il quadro comandi è offerto separatamente con due varianti MP e TCS (pag. 6) come altri accessori modulari tipo le stazioni di dosaggio, vasche di riciclo, eventuali coperture, cabine, telai, distanziali, etc. (pag. 7)  
**Optional:** The control panel is offered separately with two variants MP and TCS (page 6) as other modular accessories such as dosing stations, recycling tanks, any covers, cabins, frames, collectors, etc. (page 7)

The vibrating machines of the **RotoSync PL** (Pneu Lift) series are distinguished from the basic models previously illustrated, due to the presence of the Pneu Lift device, which consists of a central shaft with vertical excursion, pneumatically operated. Thanks to this device you can load and unload the components without removing the media. In turn, the **PL** device can be of the basic type (lifting up to about 30 kg weight) or **PLS** (PL-STRONG - lifting up to 120 kg weight) or even **PLHD** (PL- HeavyDuty - raises up to 240 kg weight c.ca). The series is articulated in a single model for diameter and capacity (280), available in three possible versions of the Pneu Lift device.

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RotoSync PL

**Rotosync PL** range of machines offers a way to avoid to unload and re-load everytime the media (required with the basic version) offering a pneumatic lifting device (integrated into the central shaft) that provides to lift out from the media the workpiece or the frame holding the workpieces, to an external position where the operator can pick them up and place them ergonomically, with the possible aid of a hoist - not supplied (by the customer).



# RSC ROSYNC



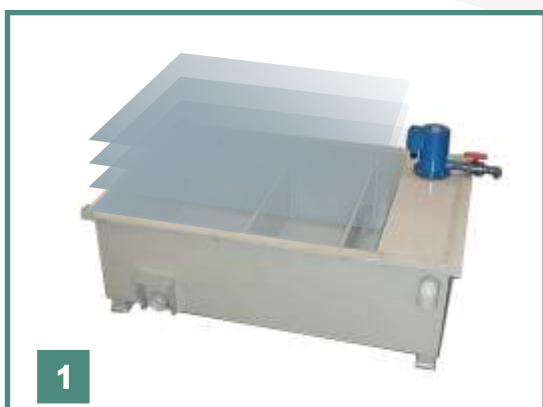
- Few examples: 1. & 5. new control board in version TCS, micro processor, frequency converter , CT push button extensions;  
2. DOS-KEM-QF column, a technologic support frame designed to hold the control panel and the dosing station for *Microfluid* finishing processes;  
3. Automatic dosing station for mixing water and liquid chemical compound type MIX-KEM-150;  
4. Superminor SMR-D-50-ES, in special design with raised basement;



Dual Motor Synchro



Dual Motor Synchro



1



2



5



4



3



6

Few examples:

1. Recycling tank with electro-pump and capacity of 170 lts.;
2. example of «KCB-RSC» «Kit Conical Block for wheels, version RotoSync»;
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. Example of connection to the automatic dosing station, with "T" connection at the back of the machine (below the discharge point of the wastewater);
6. PU protection for central shaft, customized frames, piece assembly spacers.

**RSC****ROSYNC**

# Auto Clamp

## RotoSync AC

Serie RotoSync RotoSync series	Altezza vasca Tank height	Dimensione ruota Wheel Dimension	nr. motori 3.000RPM motor q.ty 3.000RPM	Quadro comandi Control Board	Capacità nominale Nominal capacity	Capacità effettiva Real Capacity	Rivestimento std Standard Lining
<b>RSC-280/PL-AC-CF</b>	600	fino a/up to 24" <b>max. 30 kg.</b>	2 x 1,00KW	MP-3E2/TCS-3E2	280	190	SPU
<b>RSC-280/PLS-AC-CF</b>	600	fino a/up to 24" <b>max. 120 kg.</b>	2 x 1,00KW	MP-3E2/TCS-3E2	280	190	SPU
<b>RSC-280/PLHD-AC-CF</b>	600	fino a/up to 24" <b>max. 240 kg.</b>	2 x 1,00KW	MP-3E2/TCS-3E2	280	190	SPU
<b>SPU</b> : Poliuretano a spruzzo - Sprayed Polyurethane							
<b>Standard:</b> Filtro intercambiabile in PU e valvola di scarico <b>pneumatica</b> - Interchangeable PU filter and <b>pneumatic</b> outlet valve							
<b>Optional:</b> Il quadro comandi è offerto separatamente (integrazione robotica) come altri accessori modulari tipo le stazioni di dosaggio, vasche di riciclo, eventuali coperture, cabine, telai, distanziali, etc. (pag. 7 o nel catalogo <b>Industry 4.0</b> )							
<b>Optional:</b> The control panel is offered separately (Robot Integration) as other modular accessories such as dosing stations, recycling tanks, any covers, cabins, frames, collectors, etc. (page 7 or leaflet <b>Industry 4.0</b> )							

When the design choice falls on the **Rotosync AC** version, it means that the project is based on one side on a modular unit, which can be identified in one of the three models above.

On the other hand, in a robotized island that, according to specific needs, can be customized and set up following an evolved project specification, now in revision 3.0, called:

### **RT-WF-EF-PLAN\_3.0.**

The engineering level of the robotic plants or islands includes a wide range of assemblies, devices, accessories, sensors, including vision systems.



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# ROTSYNC



## RotoSync AC

The **Rotosync AC** version is born as a module to be integrated into a robotized island and, unlike the other versions of the range, it is equipped with **AC** (Auto Clamp) at the head of the Pneu Lift shaft. The pneumatic discharge valve is standard. Rollwasch has the main skills for robotics integration with: **ABB, COMAU, FANUC, KAWASAKY, STAUBLI** - nevertheless we are open to integrate other brands, whenever required. Our engineering services offer competence in **INDUSTRY 4.0** design of finishing system.



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## RotoSync AC

The vibratory finishing machine in the **Rotosync AC** version, is complete with all necessary devices for the automation of all the functions to which it must perform, such as the pneumatic exhaust valve, the pneumatically operated pneu lift shaft (available in three grades of weight), the clamp for locking the holding frame or the single workpiece, placed at the top of the central shaft. When loading a frame, once the AC clamp has locked it, the robot gripper releases the frame so that the shaft can gradually descend into the mass of the media. Once at the end of the descent, the automatic vibratory finishing cycle can be started.

## ROSYNC



Unlike what is shown on the previous page regarding the loading phase, when unloading a frame, once the **AC** clamp has released it in the position of maximum climb, the robot gripper hooks the frame to bring it into the technology tray on the device in / out. The in / out device of a robotized island can be realized with a rotary table, or with a drawer platform, or with a multi-platform warehouse and many other solutions.

These and many other variants are summarized in the advanced design specifications, now in revision 3.0, called: **RT-WF-EF-PLAN\_3.0**.



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