



COROB™
color engineering

COROB™ FLEX 500 | FLEX 540

The efficient turntable automatic dispensers

DISPENSERS

COROB™ FLEX 500 | FLEX 540

The efficient turntable automatic dispenser
Piston pump technology

An ideal family of turntable dispensers built with a simple yet effective design for handling the evolving nature of the colorants.

- Reliable piston pump technology.
- Smart management control for improving colorant dispense timing.
- Optimal colorant handling, ranging up to no-low VOC.
- Low complexity build, allowing for simple and effective use.
- Easy to change parts.

ADVANCED DEVICES

The dual direction turntable is optimized for use in smaller areas with a silent DC motor and techno-polymer gear train. This setup both provides a faster dispensing reaction time and makes the unit suitable for all the working environments.

The high compatibility techno-polymer brush allows the unit to work with water and organic solvent based colorants. The brush rotates with a 90° axis compared to the dual directional turntable's plane surface. This guarantees a complete cleaning cycle in both directions, greatly improving cleaning time.

A stainless steel pump, POM valve housing and the everlasting three-way, two-position ceramic valve work in synergy to ensure efficient and precise colorant dispensing.

The valve manages the operations during the suction, re-circulation and dispensing circuit phases.

Its design also prevents colorant leaking by creating an air tight seal. The higher liquid tolerances and better control of color dispense deliver the best results in color accuracy.

EXPANDIBILITY

A wide range of canisters can be fitted on to each model, and future expandability can also be foreseen by selecting one of the many layouts of the turntable. This decision, to be taken during the ordering of the machine, can support the business as needs grow over time.

The FLEX 500 can fit up to 24 canisters, while the bigger FLEX 540 can host 32 canisters, or fewer canisters of bigger sizes. 2,5 liter and 5 liter are available.

IDEAL COLORANT COMPATIBILITY

Variations in colorant rheology combined with varying work environments and temperatures, makes it necessary to modify machine settings for optimal colorant performance. The suction and dispensing speed can be set from 1.000 to 5.000 seconds. Air cavitation effects are therefore minimized, avoiding costly mistints. Customers may select speed that best serves their unique requirements.

The single stirring function of the COROB™ FLEX 5xx series distinguishes it from any other machine on the market. The individually programmable stirring function works to ensure the nature of the colorant stays as true as possible. Well kept colorants offer multiple advantages: from maximizing colorant life, to assuring a perfect tint and an improved cost of ownership.

Smart technology allows the customer to set pre-programmed time and stir intervals for each colorant based on the unique factors of their business.

Optimized colorant stirring helps reduce hardening, residue build up and prevents sedimentation.

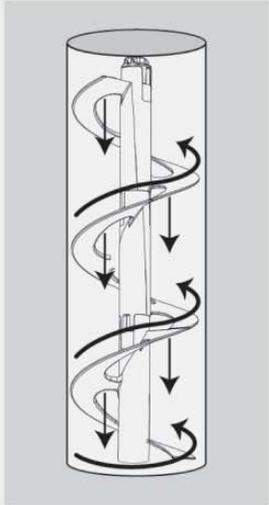
SERVICEABILITY

A streamlined design allows for simplified machine maintenance. A removable panel on the front of the machine provides easy access to the control boards, power units and the piston actuator motor.

The piston pump unit can be removed by simply closing the safety colorant sink and removing two screws. This avoids colorant from spilling out from the canister and requires very few steps to accomplish.

Machine components are located at waist level, eliminating the need for service people to bend down into uncomfortable and inconvenient positions. Other devices such as the table motor and stirring control boards have also been smartly positioned, so that minimal effort is required to reach them.





The unique shape of the stirring paddles helps achieve a highly effective stirring process of the colorant within the canister.



The bi-directional turning table speeds the colorant dispense time.



The cleaning brush is operated to keep the nozzle clean and clear from excessive colorant.



One of the lowest turntable machines in the market, with an overall refilling height of just 1400 mm (55.11 in).



OPERATOR FRIENDLY

A complete set of safety switches makes using the dispenser friend proof for any operator, becoming an ideal working partner.



IDEAL OWNERSHIP COSTS

The simple piston pumps can easily be changed over time without having to buy useless additional spare parts.



LOW-NO VOC COLORANT HANDLING

The single nozzle dispense and the cleaning brush device help reduce colorant drying in the circuits, with a continuous correct tinting result.



MAINTENANCE OVER TIME

The frame structure has been designed with many 'easy to open' access points for reaching the pumping groups, the electronic boards and the power supply unit.

OPTIONS

Semi-Automatic shelf, additional printer/mouse support, cooling fan, 5 liter canisters and aluminum lids.

QUICK GUIDE

BUSINESS ENVIRONMENT	DISPENSER	VOLUME OUTPUT	LAYOUT	CANISTERS	DISPENSE SYSTEM	COLORANT COMPATIBILITY	FOOTPRINT
<ul style="list-style-type: none"> DIY Professional paint stores 	Automatic	<ul style="list-style-type: none"> Low Medium 	Turntable	<ul style="list-style-type: none"> Up to 24 [500] Up to 32 [540] 	Sequential	<ul style="list-style-type: none"> Water Universal Solvent 	<ul style="list-style-type: none"> 0,83 m² [8.9 ft²] [500] 1,07 m² [11.4 ft²] [540]

FLEX 500 | 540

500

540

Base dispenser features

Dispensing technology	Piston pump	
Dispensing flow	Sequential	
Canister configurations	Up to 24	Up to 32
Canister sizes [l] (q-G)	2,5 (2.64 q) / 5 (1.32 G)	
Canister material	Polymeric	
Circuit flow rate [l/min]*	0,3 - 0,6 (according to colorant viscosity)	
Minimum dispensed quantity [fl.oz.] (cc)*	1/576 (0,051)	
Valve type	Ceramic valve	
Nozzle closure system / Cleaning device	Single / Rotating brush	
Pump type	Piston - Pump size [cc] (fl.oz.): 59,15 (2)	
Pump per canister	Single - one centralized motor unit	
Electronic generation / type	-	
Colorant base compatibility	Decorative and Industrial: Water, Universal and Solvent	
Shelf type	Manual	

Can handling features

Minimum can height [mm] (in)	50 (2)	
Maximum can height [mm] (in)	430 (16.9)	365 (14.4)
Minimum can diameter [mm] (in)	70 (2.6)	
Maximum can diameter [mm] (in)	230 (9.1) [w/ hole in center]	110 (4.3) [w/ hole in center]
Minimum hole diameter [mm] (in)	25 (0.8)	

Power supply / Machine environment

Power supply [V] -- Frequency [Hz] -- Fuses	Single phase 100 - 240 ±10% -- 50/60 -- F 10 A	
Maximum power absorption [W]	50 [w/ Manual shelf] - 100 [w/ Semi-aut. Shelf]	

Dispenser dimensions

Length [mm] (in)	790 (31.1)	950 (37.4)
Depth [mm] (in)	1050 (41.3)	1120 (44.1)
Height [mm] (in)	1530 (60.2)	1520 (59.8)
Footprint [m²] (ft²)	0,83 (8,9)	1,064 (11.4)
Machine Weight [kg] (lbs)	140 (309)	284 (626)

Certification

CE



ABOUT COROB

Headquartered in San Felice sul Panaro, Italy, COROB is one of the world's leading supplier of advanced tinting equipment for the global paints and coatings industry. COROB offers a complete range of point-of-sales equipment from entry-level to high-performance dispensers, as well as mixers and shakers. In addition, COROB supplies complete In-Plant tinting systems and advanced self-service vending solutions. COROB offering is supported globally by a highly recognized Service Partner network.

For further information, please visit:
www.corob.com



SERVICE NETWORK

The global Service and Partner network is a true asset to our customers, making the deployment and servicing of COROB™ equipment a true hassle free activity. Professional and extensively trained Customer Service Representatives deliver technical support, installations and on-site operator training. Extended warranty and preventive maintenance programs are offered to extend the life cycle of your equipment and optimize performances.

Data refers to base configuration machine, figures may vary according to different specifications.

* Values highly affected by the nature of the colorants and their rheological properties.

** IMPORTANT: most machine and paint can dimensions refer to the basic machine model. Options and alternative devices can change these values. Please check with your local sales representative or contact one of COROB's offices.

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