



TechSystem

Automation Technologies for Industrial Coating Systems

POWDER DETACHING LA/P2

Application system and feature

TechSystem sagl, thanks to the big experience in the field of equipment for electrostatic powder application, presents its own LA/P2 system for the powder detaching agent dedicated to all light alloy die casting.

The system is made off one or more electrostatic dispenser and the related control boards, the dispenser can be supplied in two different types, HELIX 2020 manual or ORION 2020 automatic.

The most particular feature of these dispensers is that each one has an high tension generator incorporated in own structure, that's why they can be used without numerical limitation, as they are independent.

The powder detaching agent is electrostatically applied on printing paltes of the die casting stamps generating a thin layer of covering faster than any application with liquid detaching agent.

The advantages by using this product are:

- reduction of the pieces working time; it is not necessary in fact to dry after the lubrication and the application times go from a split second to some seconds, following the stamp size
- better material sliding inside stamps and the consequent reduction of imperfections and porosity on jets
- total absence of liquid in detaching agent that ago that dose not produce refusal; as there is not powder leakage, the constant concentration is guaranteed

The dispenser installment is easy and it is often repalced to the liquid detaching dispenser ones with extreme facility.

To complete the supply, Laminix proposes the TC reciprocators and also an accurate planning of every kind of dispenser management system with antropomorphs and / or manipulating robots and already existing reciprocators use.

Technical data:

Drawer DRACO 2020

| | |
|--------------------|-----------------|
| Weight: | 7 Kg |
| Working temepature | +10°C +50°C |
| Input voltage | 230V +/- 10% |
| Air pressure | 5/8 bar |
| Water content | 1.3 g/Nmc max |
| Oil content | 0.01 mg/Nmc max |
| Air consumption | 9 Nmc/h |





Manual distributor HELIX 2020

| | |
|-----------------|--------------------------|
| Weight: | 470 gr |
| Polarity: | negativa |
| Input voltage: | 0/15 V eff AC |
| Frequency: | 18.000 Hz (+/- 2.000 Hz) |
| Output voltage: | fino 100 Kv |
| Max current: | 140 micro A |



Automatic distributor ORION 2020

| | |
|-----------------|--------------------------|
| Weight: | 470 gr |
| Polarity: | negativa |
| Input voltage: | 0/15 V eff AC |
| Frequency: | 18.000 Hz (+/- 2.000 Hz) |
| Output voltage: | fino 100 Kv |
| Max current: | 140 micro A |



LA/P2 Detaching agent

Ideal for employment with liquid metals, in inert and reducing atmospheres, it stands temperatures up to 2.000 °C

It guarantees a very high electrical isolation and thermal conductivity keeping top feature of lubricating and detaching to high temperature.

High dielectric resistance level is obtained keeping inertia to chemical agent, liquid metals and fused glass.

LA/P2 is an advanced ceramic synthetic material and it is not damped from a lot of the fused metals and slags, that is why it can be used for a lot of fused metals as aluminium, cryolite, sodium, iron, silicon, boron, germanium and copper.



Examples of application of the powder detaching with automatic dispenser