

## coral 65 II



The marketing of the **coral** model, at the beginning in the version 65 and then also as 70s started in 2009. We already had an on-board machine that covered the working width of 65cm, namely the sapphire 65, but a more economical machine was needed, a machine suitable for maintenance cleaning, a machine that did not have to support heavy duty.

Therefore, even keeping a solution tank capacity of 100 litres, we have produced a machine with a battery tension of 24V. In this way we can use less expensive batteries, the traction group, even if quite strong, has in any case a lower standard than the one of the sapphire, the brushes base group does not have two reduction gears anymore but a belt transmission.

The belt transmission is an excellent transmission, relatively cheap and capable to soften eventual hits or starting tears of the brushes.

However, it has some inconveniences as well: in fact, a long belt vibrates a lot; furthermore, if this is inside a "bell" structure, the vibrations may get into noise.

We have been analyzing the problem for a long time and have noticed that, the complete system of the brushes base control coral 65 begins to vibrate only in particular conditions, that is when the brushes have the bristles that warm up and therefore become soft. This happens for example if the brushes base is used without water or if very little water is used and the machine does not move.

In any case, since we did not want any kind of limits, we have decided to replace the brushes base with the one of a superior category machine.

Therefore, the **coral 65 II** does not have anymore the brushes base with the belt but with two reduction gears (one for each brush) and a motor of 24V 900W, much stronger than the previous one (which was of 600W).

In this way, also the cleaning performances will be improved, as for example there is an increase of the maximum working pressure from 60kg to 80kg.

Furthermore (like on sapphire), if the brushes base gets a side hit, it has the possibility to move of about 5cm, reassuring the use of the machine near walls or shelves.

The retrofit is possible on coral 65, but you have to pay a lot of attention while doing it, because the components to be replaced are a lot and so the adjustments to be done, both from the mechanical point of view as regarding the software of the check card functions.