

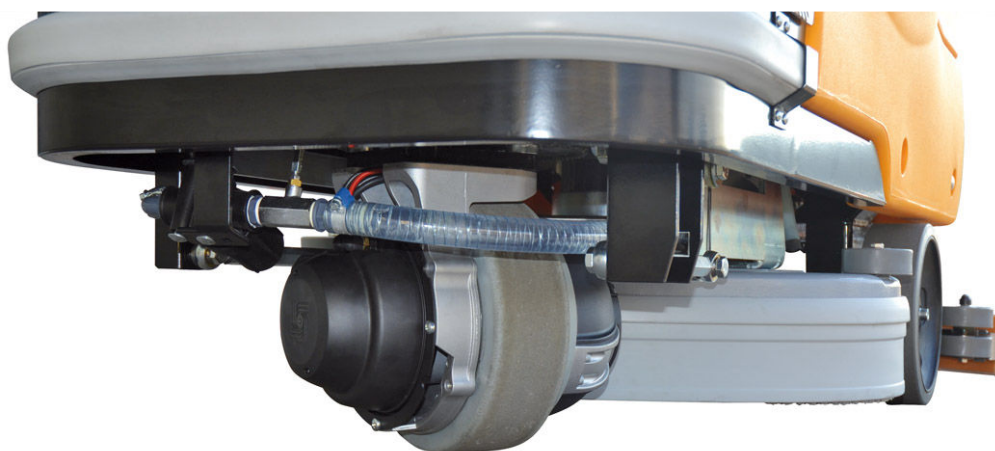
## coral 65m



**coral 65m** was born with the purpose to satisfy two precise requests:

- to cut down the production costs without reducing by this the performances,
- to shorten the overall dimensions, having in this way a smaller machine compatibly with the existing tank volumes.

These two requirements have brought us to an obliged design choice; i.e. to take off the geared motor of the rear traction and consequently to equip the machine with a front traction motor wheel.



However, it is important to specify that this traction motor wheel has got a power of 600W, while the one of the rear traction geared motor was of 500W. According to the tests made with full tank, during transfer, the traction motor wheel manages to go up a slope close to 15%.

The traction motor wheel is equipped with an electro-magnetic brake which gives a braking torque to the wheel of 135 Nm. This is a very high braking torque that makes it possible to stop the machine in any situation. This brake is the heart of the machine's security because after one second from when the accelerator pedal is not pressed anymore, the wheel gets blocked stopping the machine. Our tests prove that, going down on a slope of 13% with the machine launched at maximum speed, if you take off the foot from the accelerator, the machine will stop within one meter.

Having cleared the internal zone of the two rear wheels offered us an opportunity: we could bring forward the squeegee supports. Therefore, we have brought the squeegee as close as possible to the rear wheels and this has allowed us to re-design the squeegee by shortening it considerably from the previous one (we passed from 1000mm to 835mm), moreover it is now completely inside the machine, under the recovery tank.



On the whole, we have a shorter machine, very handy in the maneuvers in complicated passages like restaurant halls, supermarket corridors or where there are any obstacles to be avoided.

The electronic part has the same hardware, but the software is new: in fact, we have improved the function of auto protection in case of overload of the actuators and we have adapted the software of the chopper card to the traction motor wheel.

The **coral 65m** at the moment is supplied only with the disc brushes.