

Airless Road Marking Technology The essential difference HOFMANN-Airless-Technology - Conventional-Airless-Technology

With conventional Airless marking technology there is no connection between the pump displacement amount and the running speed of the machine.

A specific consistent transport volume is set for the pumps, and the running speed of the machine is controlled by the operator and kept consistent, so that the desired thickness of the coat of paint is achieved. This is continually calculated from the measured conveyed paint amount and running speed and (with a delay) shown in a display. The operator must observe the display and then adjust the speed, i.e. the operator acts as controller. An exhausting task. Not a trace of automation. Of course, deviations from the target layer thickness increase in frequency and size the less conscientious and the more exhausted the operator is.

Airless-machines by HOFMANN are different. The volume transported by the pump is directly coupled to the running speed of the machine. When the running speed changes, the paint delivery quantity changes as well, at the same ratio and of course without any delay. This keeps the paint layer thickness consistent at all times - automatically.

The operator does not need to observe any layer thickness display and does not need to strive for a consistent driving speed. In contrast, the operator may actively adjust speed to the traffic and road situation in a large range. The average speed can be enormously increased by this!

The desired layer thickness is not a result of paint transport volume and accordingly adjusted driving speed, as in the conventional airless machines. In HOFMANN machines, the paint layer thickness is set and then remains consistent automatically. Of course, the setting can be changed during the drive without having to observe the speed. The enclosed sketch compares the conventional system and the AMAKOS® system with each other.



Read what the HOFMANN marking system can do in the enclosed leaflet. Also request our information no. 258, which contains some more interesting information on this new dosage system.

HOFMANN – Airless-Technology with paint delivery governed by covered distance – proven for more than 15 years!

HOFMANN GMBH

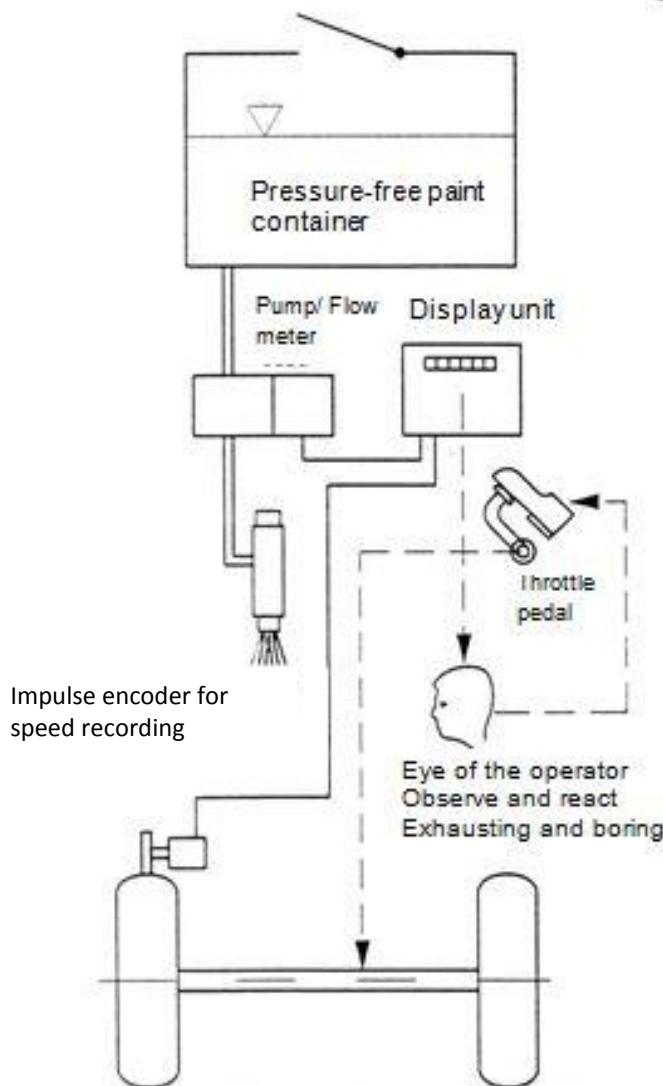
AMAKOS® Application with automatic constant sprayfilm thickness

Conventional Technology

HOFMANN Technology

(A)

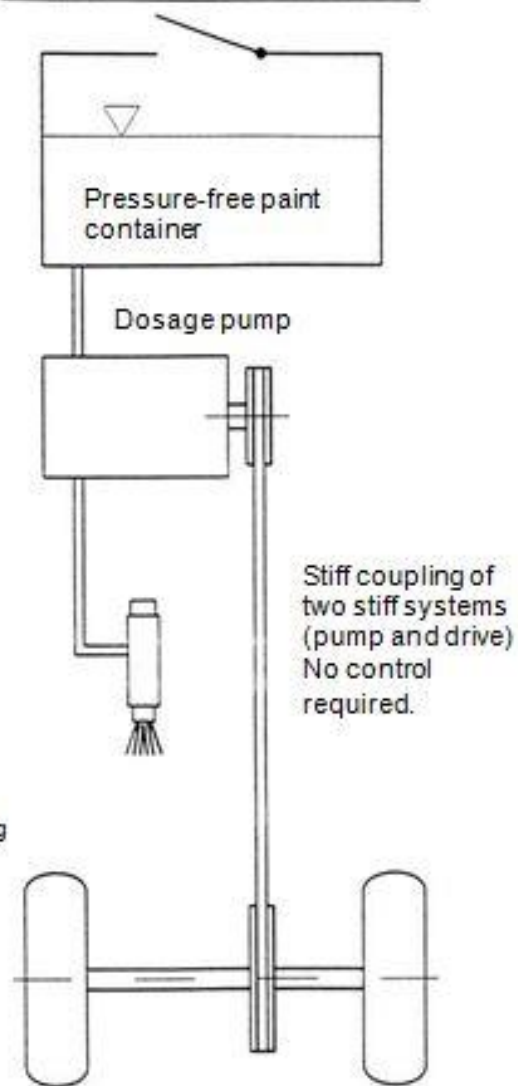
Layer thickness display system
(with flow rate meter)



Display of the calculated averages of the layer thickness, display delayed Reactions of the operator to target-actual deviations delayed. Compensation of the target-actual deviation delayed. Large dependency on care and fatigue of the operator. Operator acts as controller. At target-actual deviation zero, the operating speed must not change. Any change leads to a layer thickness change in the opposite direction.

(B)

Keeping the layer thickness
consistent with speed-proportionally
driven dosage pump



The paint volume is added proportionally to the speed. The amount conveyed by the pump follows changes to the running speed without delay. The running speed may even actively be changed almost any way by the driver. The layer thickness remains consistent. Lower dependency on care of the operator.

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