

Special application machines for test fields

Machines for better and better-reproducible test field marks



For the application of thermoplastics



For the application of sprayable thermoplastics



Preheater Type ID 50M

We will present a number of machines to you that we have developed for foreign customers specifically for application on test fields. As you surely know, some countries are a lot more demanding than ours.

The machines contain a number of special features that make completion of test field marking faster, more comfortable and more reproducible.

- Quick cooling for heat transfer oil.
- Achievement and keeping constant the material target temperature at the desired level is often difficult and time-consuming. To bypass a time-consuming asymptotic temperature approximation and oil target temperature to material target temperature, the oil is usually used at overtemperature initially for the sake of faster heating. Once the material target temperature has been reached, overtemperature of the oil is no longer desired, since it causes the material to heat up further - even with the burner off. HOFMANN test field machines can remove the overtemperature of the oil by controlled exchange of a partial volume against cold oil.
- Oil circulation system
- Hydraulically driven agitator
- For the temperature control:
 - Thermostat (analogue) for oil overtemperature
 - Thermostat (electronic) for oil target temperature
 - Thermostat (electronic) for material target temperature
- Acoustic signal when undercutting an adjustable minimum oil temperature
- Display of the running speed to 0.1 km/h
- Display of the engine revolutions
- Latching device for adjustable maximum speed

Thermoplastic application

- Container for 50 l material. Container axis and agitator nearly horizontal, inclination 15 °. Ensures good homogenisation of the material. Outlet can be sealed so that the inside of the container can be cleaned with liquid solvents.
- Smoothly adjustable material flow.
- Oil circulation system for storage container and screed box.
- Line layer thickness can be adjusted to 0.1 mm with display.
- Measurement of the material temperature in the screen box.

Sprayable thermoplastic

- Pressure container for 50 l material
- Material circulation system
A hydraulically operated conveyor pump removes material from the supply container and returns it to the container again through the spray gun. This ensures best homogenisation of temperature, material viscosity and material mix in the container, lines and spray gun.
- Spray gun lockable
Shut-off valves up- and downstream of the spray gun permit quick changing of spray nozzles even with the supply tank full and under pressure.
- Separately controllable atomiser air heating:
To influence the spray pattern with heated atomiser air
- Atomiser air flow meter
- Temperature measurement at the spray gun for material and atomiser air

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