

MultiDotLine® Universal Extruder

The MultiDotLine® extruder revolutionised thermoplastic agglomerate markings at its introduction in 2003. HOFMANN has now further improved this successful model:

- New extruder shutter actuation
- Improved heating and thermal insulation
- **Higher line quality and increased productivity!**
- **Less wear and less maintenance!**



Special features of MultiDotLine® Universal Extruder

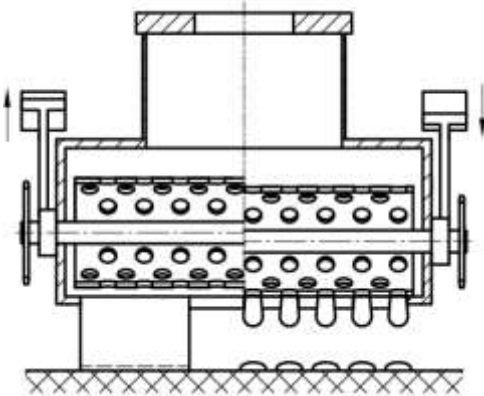
New extruder shutter actuation:

- Due to the new design, the operating forces necessary for opening and closing the individual shutters could be considerably reduced. No shutters which are pressed against the housing! The shutters are now directly operated from the pneumatic cylinders.
→ **less wear, fewer wearing parts – reduced maintenance!**
- The shutter sits on a shutter support. This shutter support is heated by thermal oil. The higher heat input into the shutter improves the line beginnings and endings.
→ **Greater line quality!**
- The shutter can be removed from it's support by loosening only one screw – shutters can thus be easily replaced if damaged. Each shutter is individually and independently detachable from the other – without having to disassemble the whole shutter set and the thermal oil lines.
→ **Easy to maintain!**
- Only one shutter set – ideal for plain, cross profile and dot markings (see images). A compact extruder head – fewer wearing parts than with two separate shutter sets with twice the number of shutters, pneumatic cylinders and valves.
→ **Compact, reduced maintenance!**

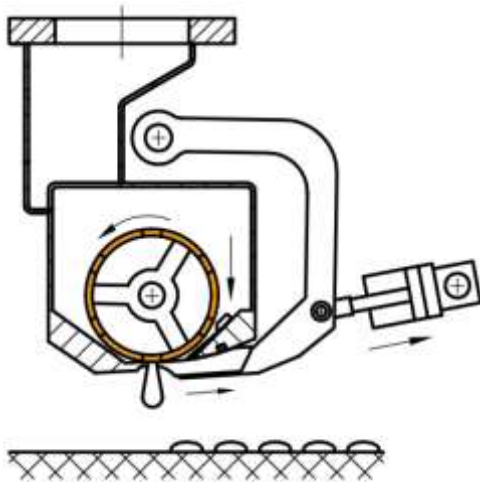
And further:

- The entire extruder head can be rotated, making it optimal not only for the classic (slightly drop-shaped) dots but also for markings with round dots.
- Improved heating and thermal insulation of the extruder head.
- The drive of the extruder screw is carried out path-dependent on demand, i.e. the layer thickness is kept constant at varying speed (AMAKOS®).
- Suitable also for marking materials with larger grain sizes (e.g. ViziSpot®).
- For particularly problematic marking materials, an extruder mixer is available (option). An agitator keeps the extruder slot free from the inside of settling solids from the marking material – no material circulation through the extruder screw, during which the marking material heats up unnecessarily (changes in material viscosity).

Principle of operation

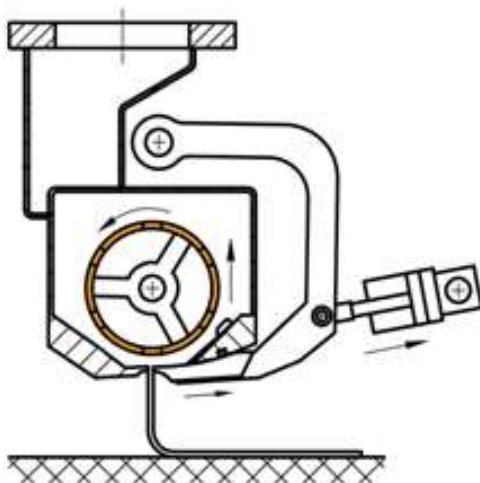


Rotation of an hollow cylinder with openings (profile drum) inside of the extruder housing.



Execution of profiled markings (MultiDotLine®) with a lowered drum. The profile drum is thereby slightly pressed onto an edge of carbide metal, cleanly separating the individual material portions – the secret of unbeatable clean material dots!

On the road, precisely defined patterns emerge with ensured water drainage in wet conditions.



Executing plain line markings with raised drum. Drum can be pneumatically lowered and raised during the marking operation by the operator.

Precise application of
MultiDotLine®, plain and profiled road markings
at high marking speeds

