

Premium passive safety device

Assembly machines for Safe'n'Sound® 1 and 2.25 ml



Solutions from lab to production



*Final assembly
Lab/clinical phase*



*Final assembly
Low-volume production*



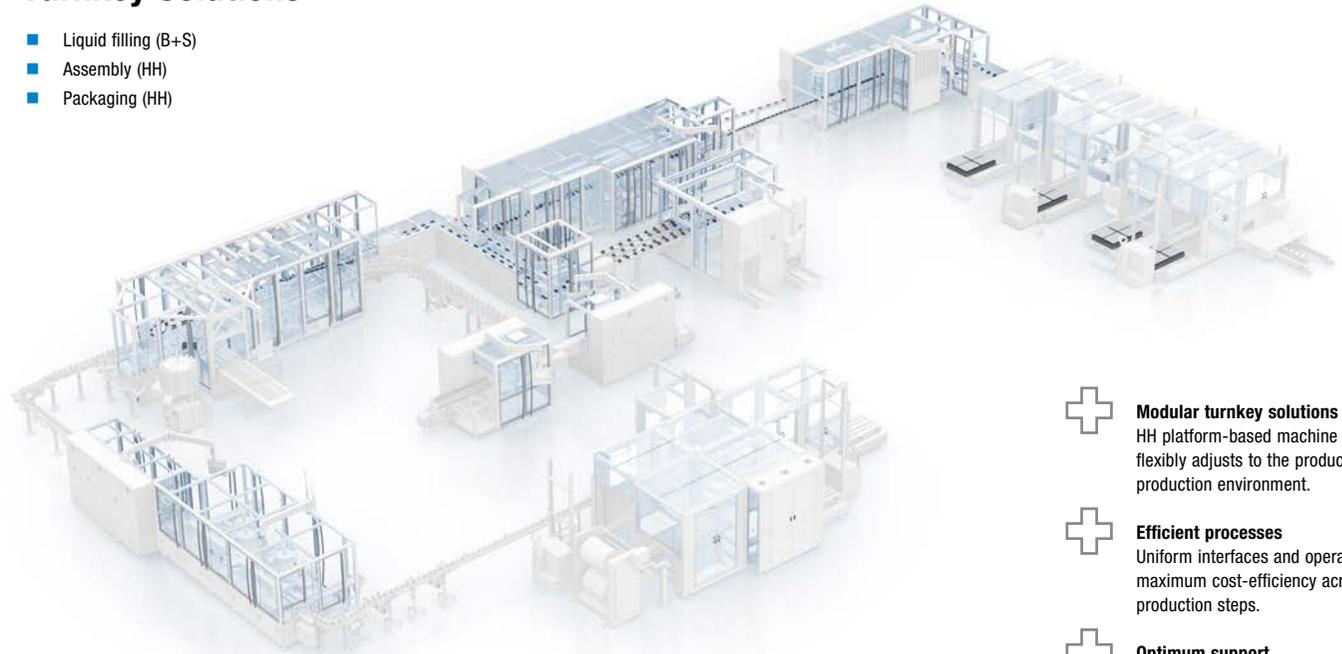
*Final assembly
Mid-volume production*



*Final assembly
High-volume production*

Turnkey Solutions

- Liquid filling (B+S)
- Assembly (HH)
- Packaging (HH)



- ✚ **Modular turnkey solutions**
HH platform-based machine design flexibly adjusts to the product and production environment.
- ✚ **Efficient processes**
Uniform interfaces and operation ensure maximum cost-efficiency across all production steps.
- ✚ **Optimum support**
HH qualified experts provide advice and support at every phase of the project and even after launch.

Turnkey solutions

The cooperation between Nemerita and Harro Höfliger enables them to offer pharmaceutical companies comprehensive and reliable solutions for the assembly of safety devices. The focus here is on patient and process security, next to the possibility of scaling.

Especially in the early project stages, the Harro Höfliger Assembly Lab is ideal for assembling safety syringes. The semi-automatic machine safely carries out critical processes like the screwing-in of the plunger stopper for the safety syringes. These steps are equivalent to fully-automatic production machines, making the Assembly Lab the ideal basis for a successful scale-up.

A quick and simple retrofitting allows not only a quick change between syringes with 1 ml or 2.25 ml filling volume, but also other devices such as pens or autoinjectors etc. can be processed on the same platform after a changeover time of only a few minutes.

The close cooperation between Nemerita and Harro Höfliger ensures process reliability, patient protection, and it opens up new possibilities to safely scale the manufacture of drug-device-combination products.



Safe'n'Sound® assembly



Device solutions provider, from development to manufacturing



Customer

Drug development and device final assembly

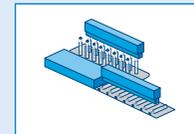


Assembly and packaging technology

Process chain



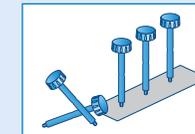
Filling
Dosing the drug into syringe.



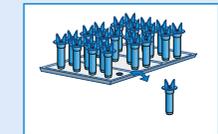
Syringe feeding
Syringe from Tub or Rondo tray.



Vision inspection
Unload syringe from Tub and Rondo tray and camera check.



Feeding from bulk
Feeding individual parts into the process.



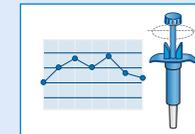
Feeding from tub/tray
Unloading the pre-assembled sub-assemblies from the tray.



Handling & assembly
Joining the components and sub-assemblies.



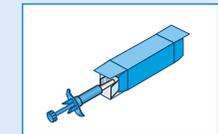
Inspection
Checking the position and presence.



Process monitoring
Force/travel measurement



Process integration
Labeling, sealing, imprinting, track & trace process.



Packaging
Primary and final packaging.

