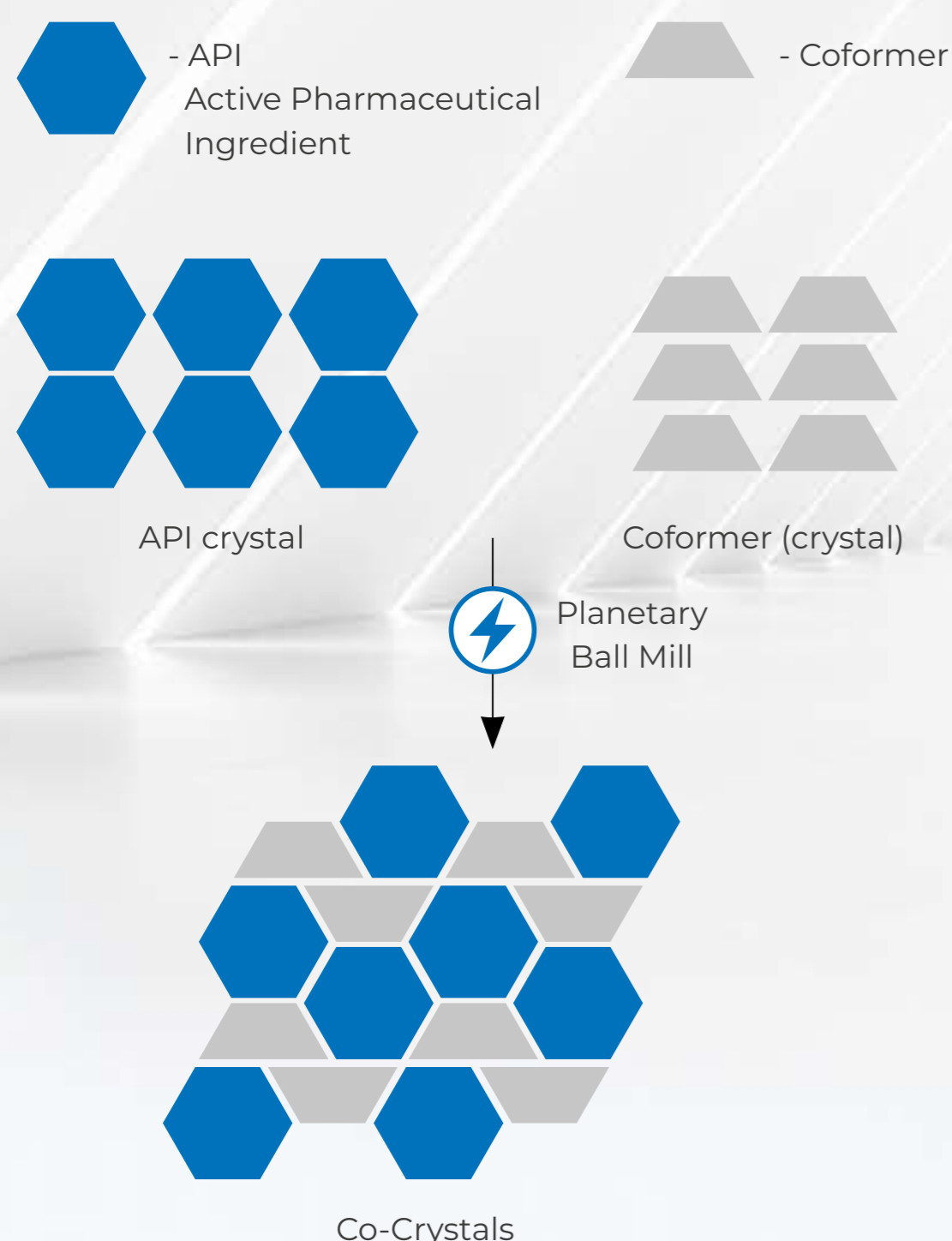


# CO-CRYSTALLIZATION



Co-Crystallization is a method to modify and optimize the properties of active materials (e.g. APIs or catalysts) by aggregation of two or more different chemical entities in a crystalline lattice

Industries: pharma, material science, chemistry, agriculture, inks, paints and food technology

Improved properties can be e.g. solubility, melting point, stability, bioavailability and processability

## 1 Screening



### Adapters for Gas Chromatography Vials

- | high number of different component mixtures possible
- | highly efficient process for screening purpose
- | up to 96 samples simultaneously in PM 400
- | variation of speed
- | Adapter for 24 x 1.5 mL GC vials
- | Adapter for 7 x 20 mL GC vials
- | disposable vials ► no cleaning effort



### Planetary Ball Mill PM 400



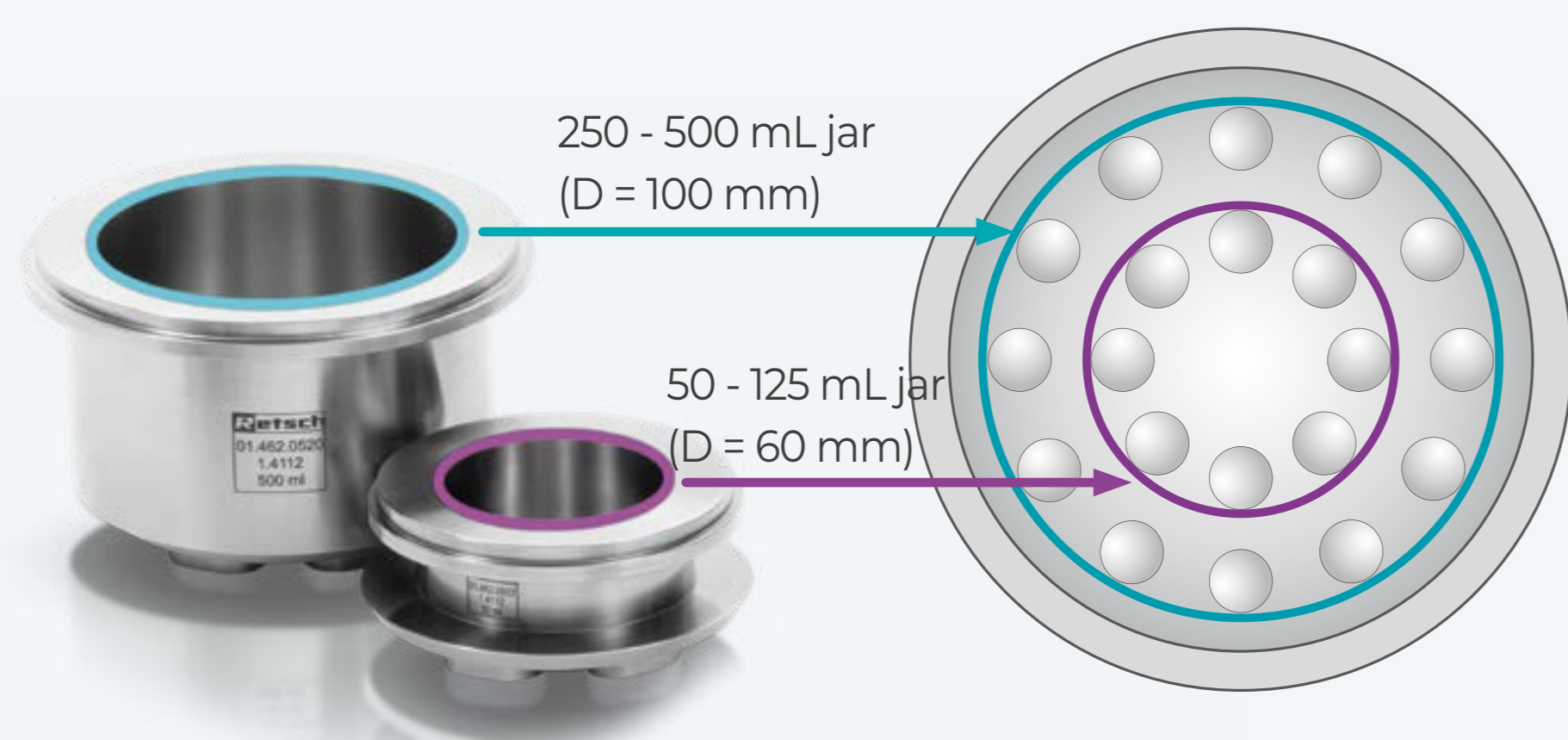
- | max speed 400 min<sup>-1</sup>
- | stackable grinding jars
- | 4 grinding stations
- | up to 8 samples simultaneously



### Planetary Ball Mill PM 300



## 2 Upscaling to bigger jar volumes



### Grinding Jars

- | jars from 12 - 500 mL nominal volume
- | same diameter as vial position in adapter ► comparable acceleration

## 3 Upscaling from screening to pilot production

### Drum Mill TM 300



- | 4 jar sizes from 5 to 43.4 L
- | variable speed 1 - 80 rpm



### Drum Mill TM 500

