

# Phoenix

for the Chemical Research Laboratory



96 head with 1 ml syringes

**Fields of application:**

- Biofuel research
- Bacterial metabolic engineering
- Biocatalyst development
- Enzyme optimization

**Accessories included:**

- Desktop computer, mouse and mouse pad
- Multi-seat software license
- Syringe wash system (optional)
- Four spare syringes

**Features:**

- **No disposables, cutting operating costs.**
- Ideal dispensing system to work with organic solvents such as Methyl Isobutyl Ketone (MIBK) and Butyl Acetate.
- Glass, stainless steel and a fluoropolymer are the only wettable surfaces.
- 96 head compatible with all commonly used chemicals (contact us for further information).
- Chemically resistant deck.
- Capacity for six blocks and/or tube racks plus three wash positions.
- Compact size allows to place the system in a fume hood.
- Closed-loop motion control on each axis: verification of task completion via encoders on each motor.
- Integrated wash-system with computer controlled peristaltic pumps and wash reservoirs.
- Windows-based drag-and-drop software.
- Choice of 96-head with 1 ml TCSS, widebore TCSS, or flexible needles. (please contact us for more information)
- Dispense head can be exchanged easily for servicing within minutes.
- Dispense volumes down to 1  $\mu$ l with a CV < 5 %.

**Phoenix base module with desktop computer → Cat. No. 600-0000-00**

**96 syringe head with 1 ml flexible needles → Cat. No. 600-1013-00**

**Further options and accessories upon request**

## Scorpion



Scorpion

Extremely versatile work station can perform anything that can be done with hand-held pipettors, but with the speed, reliability and precision of an automated dispenser.

- High speed single channel pipettor.
- Screen builder.
- For many applications and liquids such as optimization and combinatorial assays.
- Perform genomic methods such as PCRs.
- Ability to accommodate deep well blocks, 15 and 50 ml tubes, 24 and 96 well plates, and tip racks.
- Re-array screens from 15 ml tubes into 96-well plates.
- 3 dispense modes: Forward Mode, Sequential Mode, Reverse Mode.
- Movement velocity of 2 meters / sec. with extreme accuracy.

## Crystal Gryphon

“All-In-One” Microdispenser enables screen and protein drop-setting in one protocol. The modular design allows for custom set-ups.

- **No disposables, cutting operating costs.**
- Set up sitting and hanging drop vapour diffusion crystallization experiments.
- Set-up batch crystallization drops (under oil).
- Dispenses 100 nl to 100  $\mu$ l with a CV of less than 5 %.
- **Nano Protein Dispense Head (optional)**
  - Non-contact nano-dispenser for dispensing proteins.
  - Dispenses 50 nl up to 100  $\mu$ l with a CV of less than 5 %.
- **LCP (Lipidic Cubic Phase) module (optional)**
  - Seeding and for highly viscous samples.
  - Syringe based lipidic cubic phase, bicelle dispenser.
  - Integrated LCP mixing station.
  - Dispenses 25 nl to 2  $\mu$ l of viscous solution with a CV of < 5% in less than 90 seconds.



Crystal Gryphon LCP

## COBRA

### 1- or 4-Channel Nano Dispenser



“Cobra 4-Channel”

1- or 4-Channel Nano Dispenser for fast and accurate non-contact dispensing of 300 nl to 5 ml volumes.

- Ideal for PCR Master Mix dispensing, biochemical assays and drug development.
- Fast non contact dispensing into 96-, 384- and 1536-well plates, deep well blocks and PCR plates.
- Dispense any volume, any well with up to 4 independent reagents in the same pass.
- Mixed modes in one run are possible (switch between aspirate/dispense and bulk dispense).
- Integrated wash system.