



Deck of the Scorpion for Chemistry



Flow control to purge
the Scorpion for Chemistry

Applications:

- High-Throughput Experimentation
- Reaction optimization
- Reaction miniaturization to screen conditions without wasting precious samples
- Long term scheduled reaction sampling for kinetic assays
- High-Throughput screening of ligands or substrates for reactions
- Preparation of LC-MS samples

Features:

- The speed and versatility of the Scorpion make it the ideal choice for synthetic chemists to automate High-Throughput Experimentation.
- 10-fold increase or more in the number of experiments that can be set up versus a manual workflow.
- Small footprint fits into standard sized fume hoods.
- Enclosed workspace and airflow system allow for an inert atmosphere to be created which makes it possible to use sensitive reagents with confidence.
- Liquid level sensing allows the tip to follow liquid levels improving aspirate and dispense accuracies.
- Single channel head and optimized dispense modes make it easy to work with a wide range of solutions.
- Intuitive and user friendly software makes setting up complex experiments a simple task.
- The open design of the workspace and powerful software allow the system to be configured for virtually any type of lab ware.
- The single channel head design allows the Scorpion to access any type of tube, vial or plate.
- Optional integrated heater/stirrer system available which allows to place a choice of heating blocks achieving a maximum temperature of approx. 300 °C and stirring speeds of 50 to 1,500 rpm.
- The deck has up to 6 positions and can accommodate 96 racked 15 ml tubes, 24 racked 50 ml tubes, glass vials, deep well blocks or other microwell plates in SBS-format, as well as tip racks.
- The Scorpion makes your work safer and limits lab personnel exposure to solvents.
- Multiple tip sizes can be used in one protocol. Suitable pipette tips: see separate price list.
- Environment: 4 °C to 70 °C, non condensing / (w x h x d): 48.3 cm x 69.8 cm x 48.3 cm

Scorpion for Chemistry with desktop computer → Cat. No.: 640-1000-20

Phoenix for the Chemical Research Laboratory

- **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.
- Choice of 96-head with 1 ml TCSS, widebore TCSS, or flexible needles.
- Also available: Crystal Phoenix, a High-Throughput Protein Crystallization Robot.



Scorpion



High-speed Single Channel Dispenser

- PC controlled **screen builder**.
- Accurate movement with a velocity of up to 2 m / sec.
- 3 dispense modes: forward, sequential and reverse.
- Compatible with 20 µl, 50 µl, 200 µl and 1000 µl pipette tips.
- Minimal pipetting volume 0,5 µl.
- Multiple tip sizes can be used in one protocol.
- Liquid transfer can be defined as volume, concentration or pH.
- 6 positions for plates in SBS format, 15 ml and 50 ml tubes, deep-well blocks and tip racks.
- Complete aspiration of liquids from 15 ml and 50 ml tubes.
- Positive air displacement pipette head and a vast reagent database with pre-defined settings for liquids of different viscosities including 80 % glycerol and DMSO .
- Intuitive software with programme database for easy choice and design of dispensing protocol.

COBRA

1- or 4-Channel Nano Dispenser

- 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.



“Cobra 4-Channel”

For more information on these and other liquid handling systems from Art Robbins Instruments, please ask for our complete brochure.