

Screen Builder



1 ml Tip Test Data		
Reagent	Volume	CV
Water	1 µl	4.4 %
DMSO	1 µl	2.3 %
"	10 µl	2.5 %
DMSO 80 %	1 µl	5.0 %
Methanol	10 µl	3.9 %
Ethanol	10 µl	2.0 %
Isopropanol	10 µl	3.7 %
Glycerol 50 %	10 µl	2.1 %

Accessories included
2 x 50 ml tube racks à 8 x 50 ml tubes
2 x 15 ml tube racks à 24 x 15 ml tubes
2 x pipette tip racks
2 x 96 pipette tips 1000 µl, racked
2 x 96 pipette tips 200 µl, racked

Scorpion features:

- 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 displacement speed gives the opportunity to perform a variety of different liquid handling applications including genomic methods such as PCRs.
- 3 dispense modes: Forward Mode, Sequential Mode, Reverse Mode.
- Compatible with 20 µl, 50 µl, 200 µl and 1000 µl pipette tips with dispensing down to 1 µl.
- Multiple tip sizes can be used in one protocol. Suitable pipette tips: see separate price list.
- Liquid transfers can be defined as volume, concentration or pH.
- Possibility to set up multiple plates with varying pH, different additives and varying concentration e. g normalization of salt screens.
- The deck has 6 SBS-format positions and can accommodate 96 racked 15 ml tubes, deep well blocks, standard 96 and 24 well protein crystallization plates, as well as tip racks.
- Pipette head is designed to reach the bottom of tall tubes such as 15 ml and 50 ml tubes as well as deep well blocks.
- Re-array screens from 15 ml tubes into 96-well plates.
- Large database of screening reagents contains all the common commercial screens.
- Set-up 24-well protein crystallization plates with an optimized screen, and dispense the protein.
- Movement velocity of 2 meters / sec. with extreme accuracy.
- Intelligent motion control software optimizes dispense paths and volumes.
- Liquid level sensing allows the tip to follow liquid levels improving aspirate and dispense accuracies.
- Intuitive software allows for the easy design of n-dimension grids and assays.
- Easy set-up of user-defined and gradient screen plates using an innovative graphic software.
- Software graphically shows the content of each well.
- Possibility to import / export csv-files facilitates data transfer and the creation of custom screens.
- Positive air displacement pipette head and a vast reagent database with pre-defined settings make it easy to work with a wide range of fluid viscosities, such as 50 % PEG 20,000, 80 % Glycerol and DMSO.
- 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 accessories:

Pipette Tips and Tip Rack

Pipette tips for the Scorpion for 50 µl, 200 µl and 1000 µl volume options. Tips are available sterile, non-sterile, with or without filter.



Cat. No.	Description
640-1300-00	1000 µl Pipette Tips, 1536/case
640-1300-01	200 µl Pipette Tips, 2304/case
640-1300-02	50 µl Pipette Tips, 2304/case
640-1301-00	1000 µl Pipette Tips with filter, 1536/case, sterile
640-1301-01	200 µl Pipette Tips with filter, 2304/case, sterile
640-1201-01	Pipette Tip Rack

Tubes and Racks

Each rack is magnetically keyed to the Scorpion deck to ensure proper alignment.



Cat. No.	Description
640-1099-01	Tube Rack Inserts for 1,5 ml and 2,0 ml tubes (4 pieces)
640-1200-01	15 ml Tube Rack (for up to 24 x 15 ml tubes)
640-1200-02	50 ml Tube Rack (for up to 8 x 50 ml tubes)
640-1401-01	1.5 ml Microcentrifuge Tubes (PE, 100 pieces)
640-1400-01	15 ml Centrifuge Tubes (50 pieces)
640-1400-02	50 ml Centrifuge Tubes (50 pieces)

Spring Plate for Low Volume Optimization

Set up complete optimization plates on the Scorpion with the spring fixture. Ideal for setting up the Intelli-Plate 24-4 (Cat. No.: 102-0004-00) as scale-up optimization plate. Please contact us for further information on this application.



Cat. No.	Description
640-1206-01	Scorpion Low Volume Dispense Platform

Plate Adapter

Set up optimization directly into a Linbro plate with the Scorpion Plate Adapter-Linbro.



Cat. No.	Description
640-1205-01	Scorpion Plate Adapter-Linbro

For more information on Intelli-Plates and other Art Robbins Instruments accessories, please ask for our separate price list.