

Herolab

*Manufacturer of Life Science
Instruments since 1979*



Spot Hunter

Proteomic Workstation

New Specifications

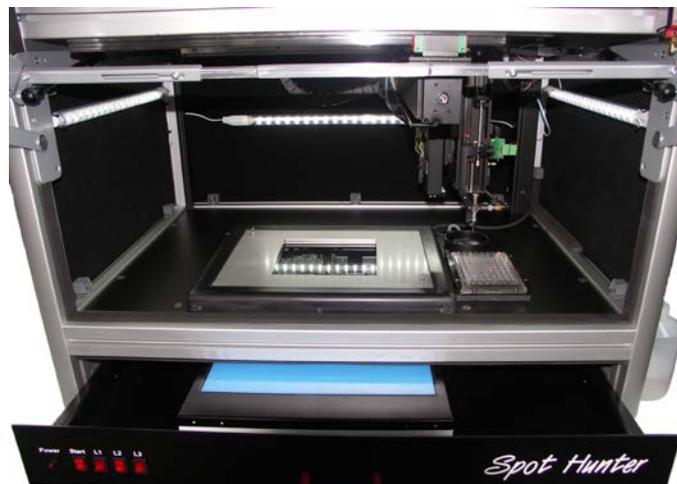
**Robotic System with integrated fluorescence detection unit
for automatic extraction of selected protein spots after 2-D electrophoresis**

The *Spot Hunter* is the new generation of proteomic workstations offering utmost flexibility, accurateness and reliability on minimal footprint.

Two versions are available:

Standard Type: gel size up to 300 x 240 mm
picking area: 285 x 205 mm
For work with one microplate

High Throughput Type: gel size up to 330 x 280 mm
picking area: 300 x 250 mm
For work with four microplates



The **combination of the essential steps of proteomic analysis in one housing** provides a faster and more efficient work:

➤ Image capture

- The image is captured from 2D gels stained with all common methods like Coomassie Blue, Silver Stain or fluorescent dyes like SYPRO® Ruby with Scientific Grade CCD-camera. Both Types are equipped with a **RGB-LED Picking plate** for Red, Green, Blue and White light illumination. There is a five-position filter wheel to put various emission filters according to your dyes.

➤ Selection

- The **easy4science** software detects interesting protein spots, creates a target list and transfers it to the picking unit. The software enables an **exact backtracking** of the spot. The documentation is GLP conform.

➤ Extraction

- The selected spots will be automatically extracted in a secured housing and then transported into one (Standard type) or into four (High Throughput Type) microplates(96 or 384 wells).

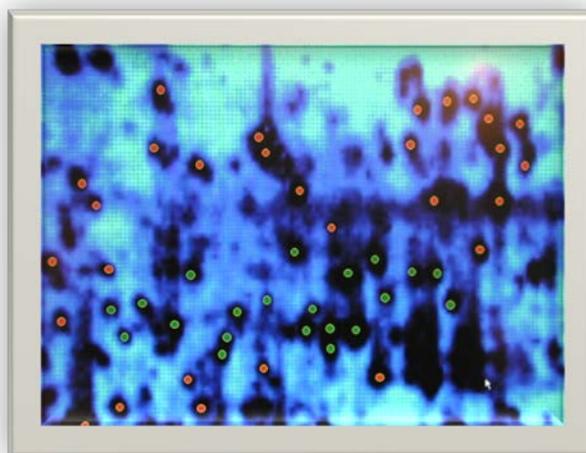
- **For 96 picks the *Spot Hunter* needs no longer than 20 minutes.**

● Spots detected to be picked

★ Spots already picked-out



Extraction needle
Inner diameter: 1,9 mm



Spot Hunter

Picking Robot

The models:

| Catalog No. | Description | Picking Area | Gel Size |
|-------------|------------------------------------|--------------|--------------------|
| 35 00 100 | Spot Hunter – Standard Type | 285 x 205 mm | up to 300 x 240 mm |
| 35 00 300 | Spot Hunter – High Throughput Type | 300 x 250 mm | up to 330 x 280 mm |

Features:

- A **unique feature** of the *Spot Hunter* is the simultaneous and speed-conform suction of the spot during the downward movement of the needle. Depending on the gel quality, the cylindrical shape of the punched-out spot will not be damaged.
- Rinsing of the needle can be preset.
- The software **easy4science** is GLP conform. (It will be supplied with a High Power Windows computer with a High Resolution monitor.)
- The robot is a **high precision instrument**. The accuracy in picking a spot is better than 50 µm.

NEW:

- ❖ Every *Spot Hunter* is supplied with the new, **innovative RGB-LED Picking Plate** for Red, Green, Blue and White light illumination.
- ❖ A five-position **filter wheel** is included. (Filters must be achieved according to your dyes.)
- ❖ The **Scientific Grade CCD-camera** is a high-resolution color camera with 5.0 Megapixels, 12 bit. The camera can be cooled -30°C below ambient temperature. Thus, the noise of the camera is reduced and faint bands can be captured.



Side view top right

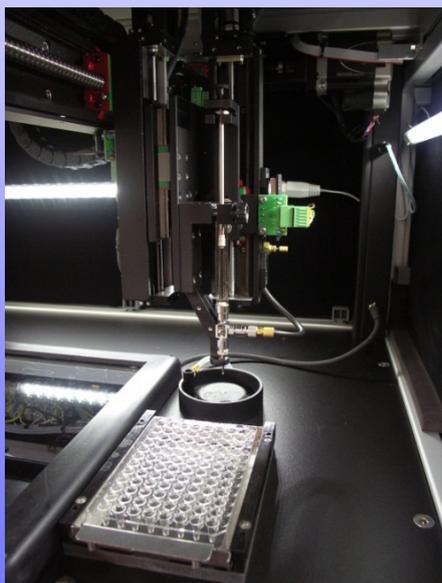
The Spot Hunter was extensively tested with high-end electrophoresis plastic-backed pre-cast gels from the manufacturer Gel Company, stained with LavaPurple™ and SYPRO®Ruby.

Specifications

Spot Hunter

Spot Hunter

| | | |
|--------------------------|--|------------------------|
| Catalog No. | 35 00 100 | 35 00 300 |
| Type | Standard | High Throughput |
| Max. Gel Size | 300 x 240 mm | 330 x 280 mm |
| Picking Area | 285 x 205 mm | 300 x 250 mm |
| Imaging and picking unit | On-board; for one or four (High Throughput Type only) microplates with 96 or 384 cavities (wells) | |
| Working speed | Extraction of 96 spots in less than 20 minutes | |
| Extraction needle | Inner diameter: 1,9 mm, Outer diameter: 2,4 mm, other sizes on request | |
| Accuracy | Better than 50 µm | |
| Camera | New: Scientific Grade CCD-camera with 5.0 Megapixels, cooling -30°C below ambient temperature, Color camera, 12 bit Five-position filter wheel is included, emission filters must be ordered separately | |
| Corpus | Aluminum corpus with leveling feature and computer controlled motors of all axes, including the intelligent picking device with easy to change syringe and needle | |
| Housing | Light-tight housing for detection of fluorescent dyes with computer controlled CCD camera | |
| Gel Plate | also works as Calibration Plate for adjustment of camera optics and picking unit | |
| Gel Illumination | New: RGB-LED picking plate: Red, Green, Blue and White light illumination Only on request: additional white light transilluminator in drawer under picking plate or UV transilluminator with quartz glass plate | |
| Computer | High-end Windows® PC with high-resolution monitor for control of the entire process | |
| Software | Evaluation Software easy4science for automatic spot detection and to create your own picking list (Also Third party software DECODON Delta2D possible to integrate) | |
| Dimensions (W x D x H): | 82 x 55 x105 cm | 110 x 90 x 105 cm |
| | maximum height with opened door: 115 cm | |



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All products built by Herolab carry the CE sign.
Herolab has its own Quality Management System which is according to ISO 9001.



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Herolab reserves the right to change technical specifications without prior notice.

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