

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

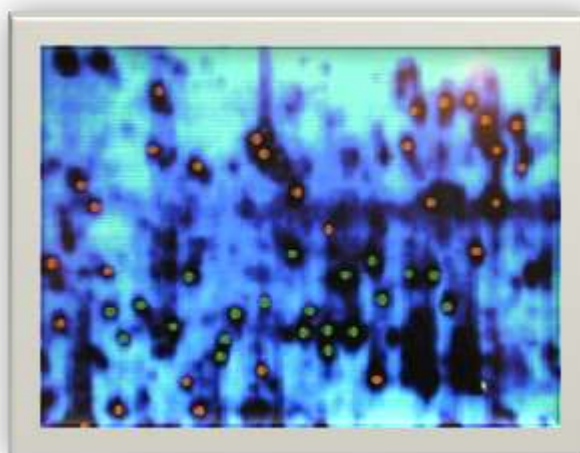
- The selected spots will be automatically extracted in a secured housing and then transported into one (Standard type) or into four (High Throughput Type) microplates (96 or 384 wells).
 - **For 96 picks the Spot Hunter needs no longer than 20 minutes.**

● 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

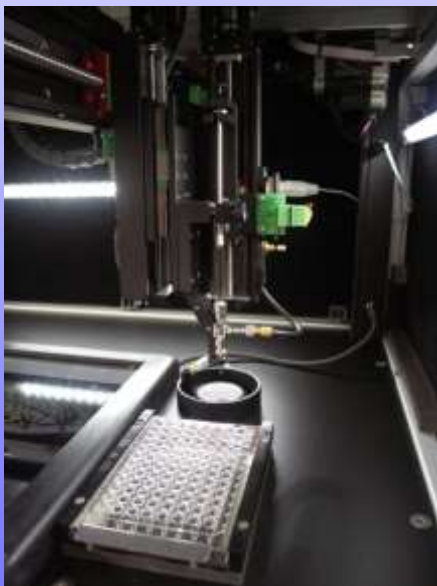
Gel Illumination **New:**
RGB-LED picking plate: Red, Green, Blue and White light illumination
Only on request: additional white light transilluminator in drawer under picking plate
or UV transilluminator with quartz glass plate

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 x 105 cm 110 x 90 x 105 cm

maximum height with opened door: 115 cm



Herolab

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



WEEE-Reg. No.
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Herolab reserves the right to change technical specifications without prior notice.

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