Herolab

Manufacturer of Life Science

Spot Hunter

Proteomic Workstation

Spot Hunter

Picking Robot

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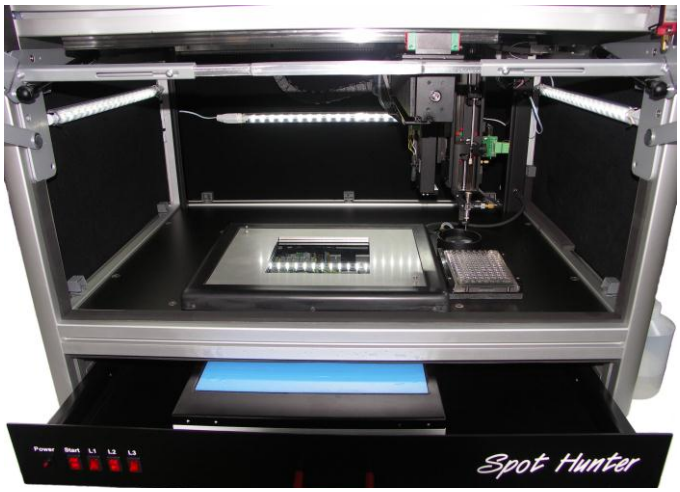
Robotic System with integrated fluorescence detection unit
for automatic extraction of selected protein spots after 2-D electrophoresis

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

Three versions are available:

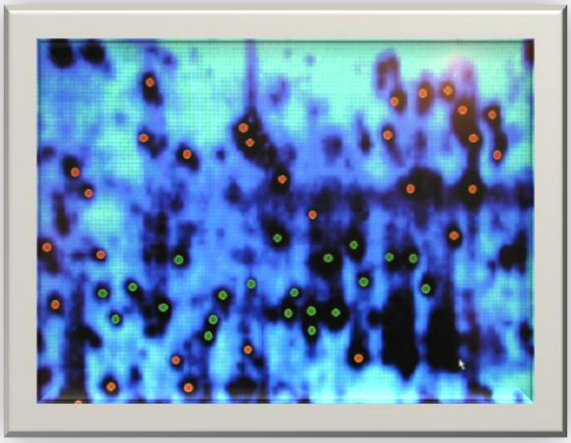
Standard Type:	**gel size up to 315 x 235 mm** picking area: 285 x 205 mm
Small Type:	**gel size up to 280 x 220 mm** picking area: 250 x 190 mm
High Throughput Type:	**gel size up to 340 x 290 mm** picking area: 300 x 250 mm

Contact us if other sizes are required.



The **combination of the three essential steps of proteomic analysis – image capture, selection and extraction – in one housing** provides a faster and more efficient work.

- The image is captured from 2D gels stained with all common methods like Coomassie Blue, Silver Stain or fluorescent dyes like SYPRO® Ruby with an application-specific configured high-resolution CCD camera. All Types are equipped with a White Light LED Transilluminator.
- The **easy4science** software detects interesting protein spots, creates a target list and transfers it to the picking unit.
- The selected spots will be automatically extracted under contamination free conditions and then transported into one – or with the High Throughput Type into four – standard microtiter plates (96 or 384 wells).



- Spots detected to be picked
- Spots already picked-out

Extraction needle

The light-tight housing enables the detection of fluorescent dyes. The gel supporting surface is illuminated and can be optionally cooled in order to avoid deformation of gels.

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 form of the punched-out spot will not be damaged. The software **easy4science** is supplied with a high performance Quad Intel computer system including Windows® XP Professional and 24" TFT-Monitor (Windows® 7 on request).

The GLP conform documentation of the process enables an exact backtracking of the spot.

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

Spot Hunter:

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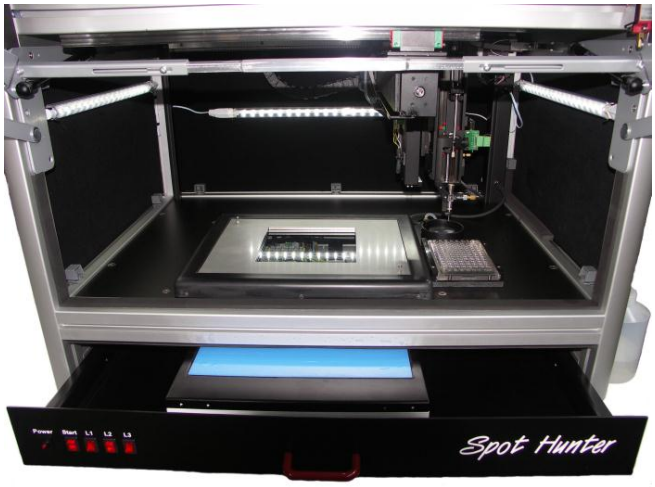
Catalog No.	Description	Picking Area	Gel Size
35 00 100	Spot Hunter – Standard Type	285 x 205 mm	up to 315 x 235 mm
35 00 200	Spot Hunter – Small Type	250 x 190 mm	up to 280 x 220 mm
35 00 300	Spot Hunter – High Throughput Type	300 x 250 mm	up to 340 x 290 mm

Additional Picking Plates:

Every *Spot Hunter* is supplied with a Blue Light, 475 nm, Picking Plate. For faster changes we propose to buy additional plates.

Catalog No.	Description		Wavelength
35 10 147	LED Picking Plate Blue	for Spot Hunter – Standard Type	475 nm
35 10 247	LED Picking Plate Blue	for Spot Hunter – Small Type	475 nm
35 10 347	LED Picking Plate Blue	for Spot Hunter – High Throughput Type	475 nm
35 10 153	LED Picking Plate Green	for Spot Hunter – Standard Type	530 nm
35 10 253	LED Picking Plate Green	for Spot Hunter – Small Type	530 nm
35 10 353	LED Picking Plate Green	for Spot Hunter – High Throughput Type	530 nm
35 10 162	LED Picking Plate Red	for Spot Hunter – Standard Type	620 nm
35 10 262	LED Picking Plate Red	for Spot Hunter – Small Type	620 nm
35 10 362	LED Picking Plate Red	for Spot Hunter – High Throughput Type	620 nm



Side view top right

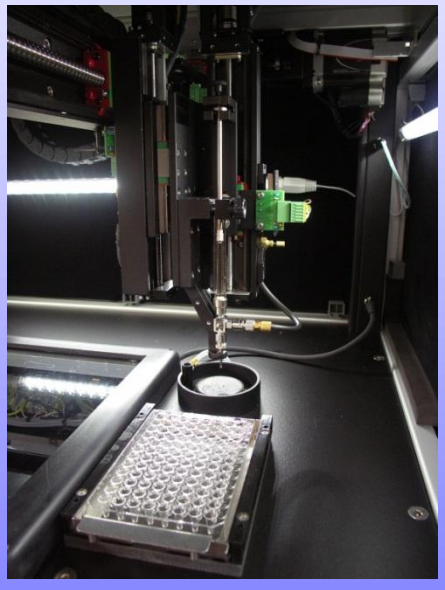
The Spot Hunter was extensively tested with high-end electrophoresis plastic-backed pre-cast gels from the manufacturer Gel Company, stained with LavaPurple™ and SYPRO®Ruby.

SYPRO Ruby is a registered trademark and the dye is manufactured by Molecular Probes, Inc. Eugene, OR / LavaPurple is a trademark of Fluorotechnics Ltd./GelCompany

Optional Equipment Components (prices on request):

Feature	Description
UV Top Illumination	illumination from above for various fluorescent dyes 254 / 312 (302) / 365 nm – one or more wavelengths available
Transilluminators	UV, White-, Blue-, Green-, or Red-Light interchangable in the lower drawer compartment. For UV Transilluminators with Short Wave (254nm) or MidWave (312nm) a special quartz glass bottom plate is required
Coolable gel supporting surface	for connection to a cryostat
Internal filter wheel	for precise adjustment to the different emission spectra of the various dyes
Cooled CCD camera	2-stage Peltier cooling, 1.4 mio. pixels, for long-term integration, binning feature for high sensitive “Super Pixel”; (identical camera from our Chemoluminescence System ChemoLum™)

Specification	Spot Hunter	Spot Hunter	Spot Hunter
Catalog No.	35 00 100	35 00 200	35 00 300
Type	Standard	Small	High Throughput
Max. Gel Size	315 x 235 mm	280 x 220 mm	340 x 290 mm
Picking Area	285 x 205 mm	250 x 190 mm	300 x 250 mm
Imaging and picking unit	On-board; for one or four (High Throughput Type only) Microtiter Plates with 96 or 384 cavities (wells)		
Working speed	Extraction of 96 spots in less than 20 minutes		
Camera	High-resolution color CCD camera with at least 3.3 mio. pixels in application-specific configuration; Optionally available: monochrome 2-stage Peltier-cooled CCD camera with 1.4 mio. pixels with binning feature for high sensitive “Super Pixel” and short exposure times		
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		
Transillumination	White light transilluminator or Blue light LED		
Computer	High-end Windows® PC with high-resolution monitor for control of the entire process		
Software	Evaluation and Analysis Software **easy4science** for automatic spot detection and comparison of different gels for the creation of picking lists		
Dimensions (W x D x H):	104 x 65 x 95 cm (41 x 26 x 38 inches)	96 x 62 x 95 cm (38 x 25 x 38 inches)	110 x 90 x 95 cm (44 x 36 x 38 inches)
	maximum height with opened door: 115 cm (46 inches)		
Options	other pickings areas / gel sizes / dimensions on request		



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All products built by Herolab carry the CE sign. Herolab is DIN EN ISO 9001.2008 certified.

CE

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