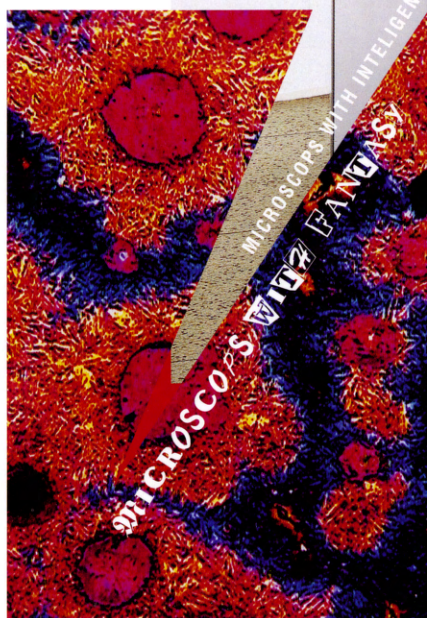
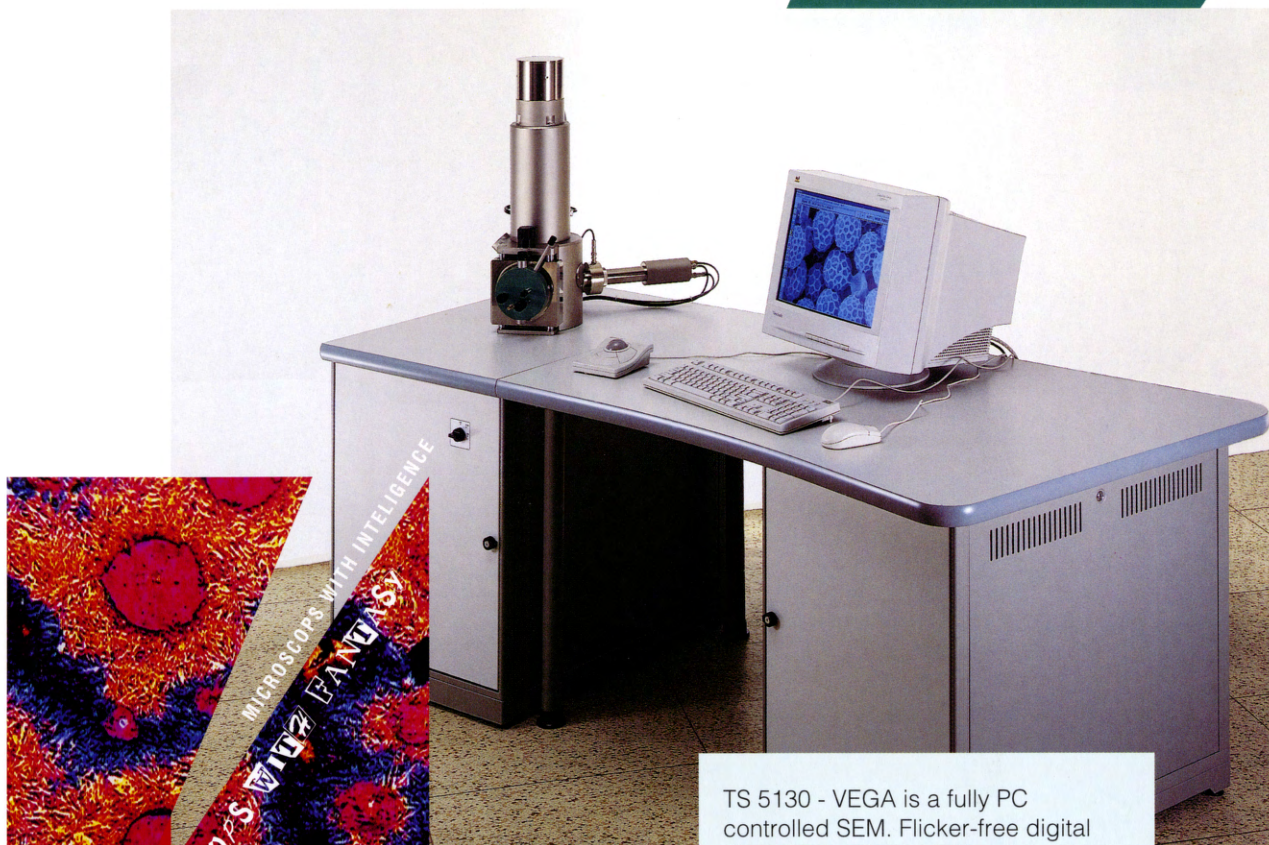


VEGA TS 5130



TS 5130 - VEGA is a fully PC controlled SEM. Flicker-free digital image with super clarity, sophisticated software for microscope control and image capturing using Windows™ platform, standard BMP format of stored images, enhanced image archiving, processing and measurements, automatic set up of the microscope and many other automated operations are characteristic features of the equipment.

The unique design of the electron optical column, with its four lenses, allows the optical system to be used in various modes:

- with the highest achievable resolution for the chosen working conditions,
- with an enhanced depth of focus,
- with an extra large field of view,
- focus-free imaging, etc.

The sophisticated construction without any mechanical centring elements, using a fixed aperture, makes it user-friendly and allows for easy maintenance.

Superior specimen handling using an eucentric goniometer stage.

Fast and easy obtaining of the clean working vacuum by means of turbomolecular and rotary pumps.



**Vevőszolgálat
és szervíz**

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Tel.: 395-3694

Fax: 274-4135

1121 Bp., Normafa u. 1.

Honlap cím : <http://www.elender.hu/~normafa>



ESSENTIAL SPECIFICATION

RESOLUTION:

3.5 nm at 30 kV and 4 mm WD

MAGNIFICATION:

20x to 500 000x

ACCELERATING VOLTAGE:

500V to 30kV

ELECTRON GUN:

Tungsten heated cathode

PROBE CURRENT:

2pA to 2 μ A

DETECTORS:

SE - ET type

BSE - Annular scintillator type

SPECIMEN STAGE:

Type: Eucentric

Movements: X = 40 mm

Y = 24 mm

Z = 27 mm

Z' = 6 mm

TILT: -90° to +90° eucentrically

ROTATION: 360° continuous

EDX

Take off angle: from 35° to 45°

at WD from 10 to 25 mm

depending on diameter of
the detector finger

IMAGE DISPLAY AND CAPTURE:

19" Super VGA monitor

Image Size: Up to 4096 x 4096 pixels

FOCUS WINDOW:

Shape and size continuously
adjustable

IMAGE PROCESSING:

Histogram operations

Smoothing and sharpening

Adaptive filters

Image editing

IMAGE MEASUREMENTS:

Distances, lengths, circles, ellipses,
irregular areas

Pixel size calibration

Export of measured data
to statistic processing

IMAGE ARCHIVING:

Album for browsing

on stored images

Database system for searching
in stored images

Direct print from the program

AUTOMATED PROCEDURES

Filament Heating

Gun Alignment

Compensation for KV

Computer Optimised Spot Size

Contrast & Brightness

Focus & Stigmator

Look Up Table

REMOTE CONTROL:

Full remote control by networked
computers via TCP/IP

TESCAN combines the experience of many years of the leading scientists and research technicians of the traditional Brno electron microscopy centre with the innovative and creative attitude of young, highly- educated people.

As a flexible company, TESCOAN offers a complete service to each individual customer.

It involves „tailor-made” modifications of basic instruments, a wide range of supplementary accessories developed according to the customer's wishes, the customising of software as well as perfect maintenance on the customer's premises.

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