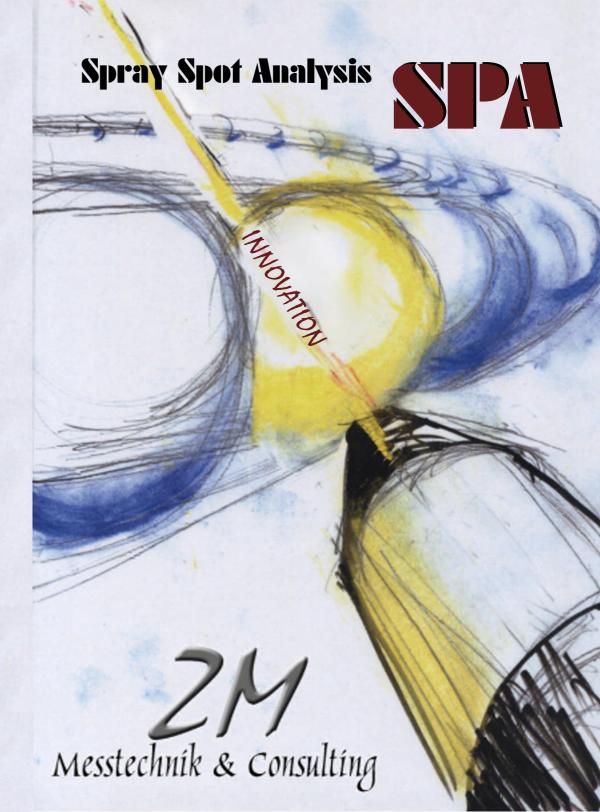


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# Spray Spot Analysis



## The innovative analysis system 3D SPA (Spray Spot Analysis)

The deposition of reproducible and high quality coatings by means of thermal spraying requires rapid controlling used simultaneously during the production process. A suitable technique is the repeated production of spray spots for determining the deposition efficiency in the case the spraying conditions have to be re-adjusted.

The Spray Spot Analysis (SPA) allows a very rapid, simple and accurate determination of the spot current characteristics: profile height, volume, location of the spot maximum and porosity. This, combined with the intuitive software, enables an on-line scan within 10 seconds of the resulting deposition.

## The SPA system delivers:

- height and elevation profile of the spray spot
- volume and deposited mass
- x,y position of the spray spot maximum
- porosity of the spray spot (after weighting the sample and entering the mass density of the deposited powder)

Additionally, the system can measure O rings of a size up to 40 millimetres in diameter.

## **Application:**

- all thermal spray processes

#### **Software features:**

- simple and intuitive operation
- touch screen suitable
- detailed documentation function
- export of results to Microsoft Excel
- graphics export into jpg format

### **Technical characteristics:**

## Sample:

- max. spray spot size 40 x 60mm
- max. sample plate 150 x 150mm
- max. sample height 15mm

#### Resolution:

- finest vertical resolution: 12.7μm
- x,y plate: up to 80μm

#### **Dimensions:**

- 30cm x 21cm x 35cm

#### Power rating:

- 100-240V AC, 50-60Hz

#### Laser:

- protection class: II (EN 60825)

#### Minimum hardware requirements:

- Processor 1.0GHz, 256MB RAM
- 100MB free HDD Space
- graphics resolution 1024 x 768pixels
- 1x serial port (115200baud)
- Windows 2000/ Windows NT/ Windows XP