

**HAYER & BOECKER**



**DIE DRAHTWEBER**



# **HAYER CPA 5 GRAVIOPT**

THE LARGE MEASURING DEVICE.  
COMBINED PROCESS FOR PARTICLE ANALYSIS FROM 0 TO 200 MM.

# HAVER CPA 5 GRAVIOPT.

## Combination of gravimetric measurement and Photo-Optical Particle Size Analysis for the measuring range from 0 to 200 mm.

The HAVER CPA 5 GRAVIOPT combines the advantages of the Photo-Optical Particle Size Analysis and gravimetric measurement.

The material to be analysed will be classified by a purpose built HAVER sieving machine. Having the sieving machine upstream of the HAVER CPA allows the user to choose a cut point for fine materials that is part of the product mix.

The sieve overflow (coarse material) will be analysed photo-optically by a HAVER CPA unit and discharged from the CPA to a scale for the gravimetric measurement.

The mass fraction of the sieve underflow (fine material) will be determined directly by a second scale. The HAVER CPA software

evaluates & combines the total distribution of the sample with the information from the photo-optical and gravimetric measurements. The result is a complete sieve curve from very fine material to the coarsest material.

The HAVER CPA 5 GRAVIOPT technology allows the user to measure material from 0 up to 200 mm with the same instrument.

The HAVER CPA 5 GRAVIOPT is supplied with user-friendly HAVER CPA software, which works with current Windows operating systems. Both the measuring unit and the software are designed for an online connection to a PLC system. Upon request, the CPA software can be customised to meet special requirements.

### Advantages of the HAVER CPA 5 GRAVIOPT:

- fully automatic, fast particle size analyses
- covering of a wide grain spectrum (finest fraction is ascertainable)
- online-compatibility
- integration into existing installations is possible
- pneumatic cleaning as standard

- robust design
- software changes individually programmable

### Examples for applications:

- rock, stone, and related mineral products
- coke
- coal
- recycling materials, and others

### Technical data:

Measuring range:	0 mm to 200 mm
Operating voltage:	230 Volt, 50 Hertz or 115 Volt, 60 Hertz
Type of protection:	IP 54
Feeder width:	450 mm
Camera:	CCD-line camera
Horizontal resolution:	4096 pixel
Pixel frequency:	60 MHz
Light source:	halogen lamp
Scales:	1 x for sieve underflow 1 x for sieve overflow
Dimensions:	approx. 5400x720x1720 mm (LxWxH)
Colour:	blue, RAL 5013



HAVER CPA 5 GRAVIOPT for the gravimetric and photo-optical analysis in the measuring range from 0 mm to 200 mm

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