

HAYER & BOECKER



DIE DRAHTWEBER



HAVER CPA 4 GRAVIOPT

THE COMPACT MEASURING DEVICE.
COMBINED PROCESS FOR PARTICLE ANALYSIS FROM 0 TO 50 MM.

HAVER CPA 4 GRAVIOPT.

Combination of gravimetric measurement and Photo-Optical Particle Size Analysis for the measuring range from 0 to 50 mm.

The HAVER CPA 4 GRAVIOPT combines the advantages of Photo-Optical Particle Size Analysis and gravimetric measurement. The material to be analysed is conveyed by a HAVER EMZ (vibratory feeder) and classified by a HAVER DMS (purpose built screening machine), whereby the cut point is freely selectable. The sieve overflow (coarse material) is analysed photo-optically and discharged to a Rotating Hopper Scale for the gravimetric measurement. The mass fraction of the sieve underflow (fine material) will be determined directly by a second Rotating Hopper 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.

Along with the HAVER CPA 4 GRAVIOPT, which measures samples up to 50 mm grain size, the HAVER CPA 5 GRAVIOPT is suitable for the particle analysis up to 200 mm.

The HAVER CPA 4 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 4 GRAVIOPT:

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

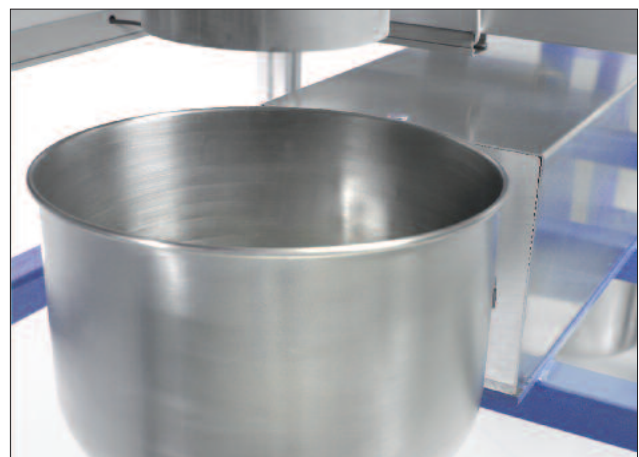
- robust design
- changes of software can be programmed individually

Examples for applications:

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



HAVER CPA 4 GRAVIOPT with two Revolving Hopper Scales for the sieve overflow and sieve underflow



HAVER CPA 4 GRAVIOPT Revolving Hopper Scale

Technical data:

Measuring range:	0 to 50 mm
Operating voltage:	230 Volt, 50 Hertz or 115 Volt, 60 Hertz
Type of protection:	IP 54
Feeder width:	200 mm
Camera:	CCD-line camera
Horizontal resolution:	4096 pixel
Pixel frequency:	60 MHz
Light source:	LED
Scales:	1 x for sieve overflow 1 x for sieve underflow
Dimensions:	approx. 3000x790x2010 mm (LxWxH)
Weight:	approx. 450 kg
Colour:	blue, RAL 5013

HAVER & BOECKER · Ennigerloher Straße 64 · 59302 OELDE, Germany · Phone: +49-2522-300 Fax: +49-2522 30-404
E-mail: cpa@haverboecker.com · Internet: www.weavingideas.com