

 – A NEW ERA



The ALPINE Air Jet Sieve®

 **200LS**
HOSOKAWA ALPINE



WHAT DOES STAND FOR?

EFFICIENCY AT WORK

This means that all the standard functions and evaluations are already integrated into the new e200 LS. The user-oriented system interface makes operation easy and reliable. Operational procedures are faster and work is more comfortable, and you save on peripheral equipment.

INTEGRATED UNDERPRESSURE CONTROLLER

The e200 LS has an automatic controller that monitors the underpressure in the sieving chamber and thus the dispersing effect of the nozzle jet, and which keeps the underpressure constant throughout the entire sieving process. Here too, this means: more efficiency, reliability and comfort.

UNIVERSAL SIEVE ADAPTER

Simply switch over to the new e200 LS: all sieves can be used, regardless of make and 200-LS version.

ALPINE SIEVE IDENTIFICATION

ALPINE sieves equipped with a transponder chip are recognised and identified by the integrated software. Manual input of the sieve mesh width is no longer necessary, thus reliably preventing sieve insert errors. Evaluation in the analysis log is automated. This is particularly advantageous

for laboratories in which a number of different products are analysed with different sieve sets. Process parameters such as sieving time and underpressure can be individually saved to memory and retrieved automatically during operation.

INTELLIGENT SIEVING TIME DETERMINATION

With eTimeSave, you'll always select the right time! The sieving time is the make-or-break criterion of a sieving analysis. It must neither be too short nor too long. This is where the success of the sieving is decided, i.e. whether a sample will be sieved completely and reproducible results achieved.

The new eTimeSave assists the user in selecting the right sieving time with a probe in the sieving chamber. It has two operating modes: automatic mode or trend indicator. For every sieving process, the trend indicator signals whether the selected sieving time is correct or whether it will be somewhat longer or shorter.

ERGONOMIC DESIGN

And last but not least: the elegant and fluid lines and the smart touch screen. You only need to glance at the new e200 LS to see that it's a high-end model

e = *embedded system*

an integrated minicomputer with eControl regulates, monitors and controls the entire process

e = *easy*

intuitive operation using a touch screen

e = *efficient*

time savings brought about by optimisation of the sieving times

e = *ergonomic*

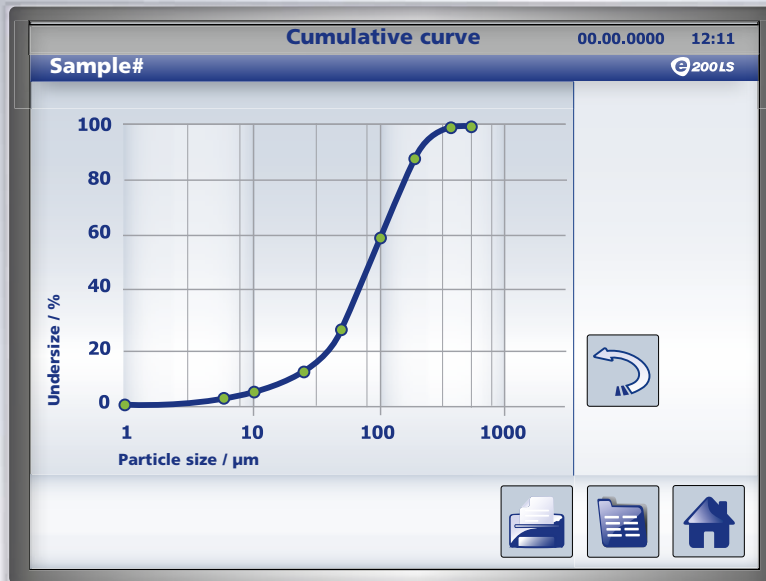
functional, elegant design

e = *evolution*

continuous and ongoing development from generation to generation



WHAT ARE THE BENEFITS OF THE NEW GRAPHIC USER INTERFACE (GUI)?





– EASY OPERATION

Simply get started – the user interface makes intuitive operation possible. The integrated analysis guide leads you through the analysis and moreover offers:

- comparison analysis, trend analyses for statistics
- language switch-over and setting of country-specific measurement units
- QM-Toolbox with user administration and password protection
- recipe management for sieve sets
- archiving and export of analysis results
- compliance with 21 CFR Part 11

RELIABLE QUALITY

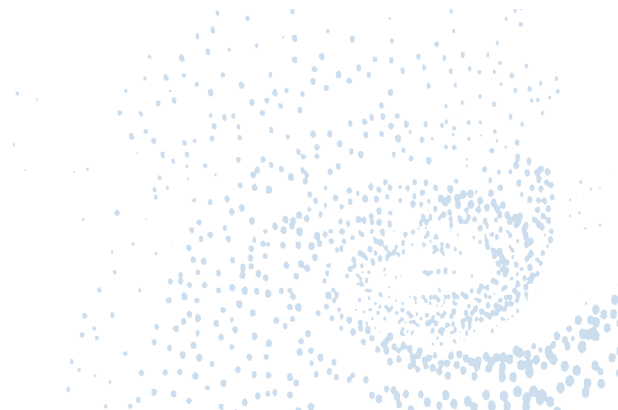
To sum up, the new e200 LS guarantees results of outstanding quality because the integrated modules eradicate any error sources. This means a significant increase in user reliability, sample reliability and data reliability. All the latest quality standards are met.

eControl

The new e200 LS is controlled by eControl.

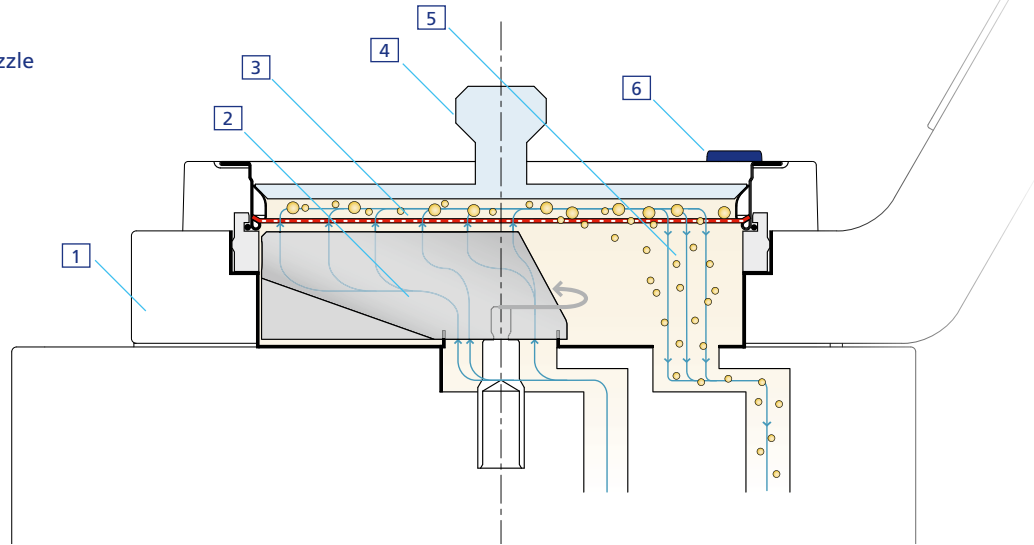
The software is available in three variants:

- BASIC
for all fundamental sieving processes
- PROFESSIONAL
the variant for all standard laboratory requirements
- ULTIMATE
top-drawer software for special demands



WHAT ARE THE MOST IMPORTANT FACTS RELATING TO THE 200LS ?

- 1 Housing
- 2 Rotating slotted nozzle
- 3 Analysis sieve
- 4 Plastic cover
- 5 Air and fines flow
- 6 Transponder chip



HISTORY

ALPINE developed the process of air jet sieving over 50 years ago and launched the very first air jet sieve onto the market. Every new generation constituted a milestone with which ALPINE defined new standards for particle size analysis.

APPLICATION RANGE

Today, the ALPINE air jet sieve is the most-used device around the world for determining particle size distributions to permit production monitoring and quality assurance as defined in DIN EN ISO 9001, as well as for the validation and documentation of tests in the laboratory. ALPINE's air jet sieve is also stipulated as standard test equipment in the factory standards of companies throughout the

world. Numerous domestic and international standards also mandate the air jet sieve as the testing device for certain products.

PRINCIPLE OF OPERATION

The only thing that moves the material being analysed is the air flow. The strong jet of air exiting the rotating slotted nozzle purges the sieve gauze continuously.

This leads to exceptionally short sieving times and ensures that even those materials which are known to cause difficulty can be sieved successfully. At the same underpressure and same sieving duration, exactly reproducible particle size analyses are possible at any time.

Technical specifications

Technology	Dry sieving of bulk materials and powders
Application	Particle size distribution, fractionation, abrasion tester
Dimensions	L x H x W = 370 mm x 405 mm x 368 mm
Weight	approx. 15 kg
Mains connection	100 – 240 V 50/60 Hz
Supply voltage	DC 24 V / 7A
Measuring range at Ø 200 / 203 mm at Ø 76 mm	20 µm – 4 mm (all common brand-name analysis sieves) 10 µm – 2.5 mm
Sieving parameters	
Nozzle speed	digital, 18 rpm
Sieving time	digital, 00:00 – 99:59 min, eTimeSave : intelligent sieving time determination
Underpressure	1000 – 6000 Pascal, performance range 20 – 100%, fully automatic control
Safety / conformity	ATEX, EMV, CE redundant pressure measurement
Sieve identification via RFID	Chip suitable for all ALPINE sieves Ø 203
Operation and navigation	Touch screen 6.4" TFT, resistive
Network	1 x 10/100 MBit
Interfaces	3 x USB, 1 x LAN Ethernet, 1 x serial RS 232



CHANGE OVER NOW TO THE NEW AIR JET SIEVE

e200 LS
HOSOKAWA ALPINE



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WWW.AIRJETSIEVE.COM

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