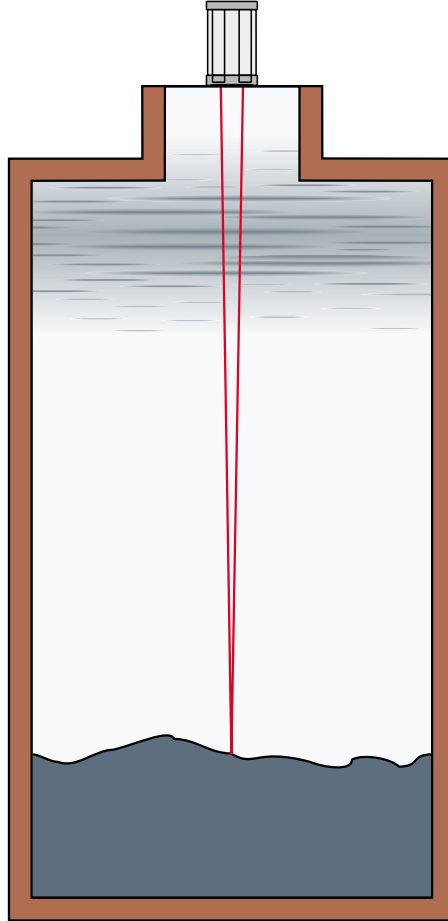


Applications of **RIEGL** Laser Instruments

Problem: Level measurement in a coal silo with high dust occurrence

Solution: LD90-3200HiP with "High Penetration" facility



Advantages:

- ✓ Narrow measuring beam
- ✓ High measuring resolution
- ✓ Reliable operation even in very dusty environment
- ✓ Exact calculation of the volume possible
- ✓ Practically all kinds of material, whether coarse, fluid or powder form, can be measured

Performance:

- ✗ LD90-450:
measuring range up to 150 m
accuracy ± 2.5 cm
- ✗ LD90-3200HiP:
measuring range up to 150 m
accuracy ± 5 cm

Accessories:

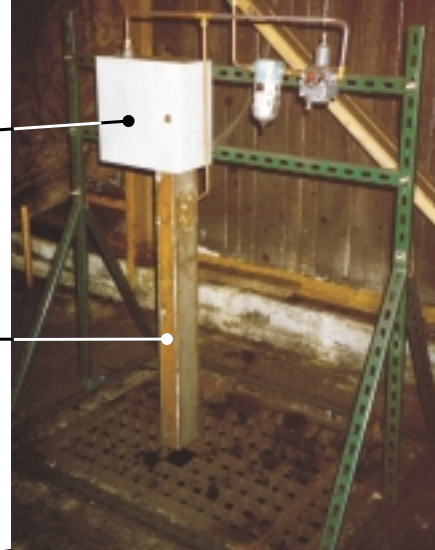
- ☞ Lens protection tube
- ☞ Vertical mount for silo measurements
- ☞ Adjustable mounting base

(Continued on the next page)

Applications of **RIEGL** Laser Instruments



LD90-3200HiP
(in the protection box)



protection tube



RIEGL
LASER MEASUREMENT SYSTEMS

Application Note
AN-IA143

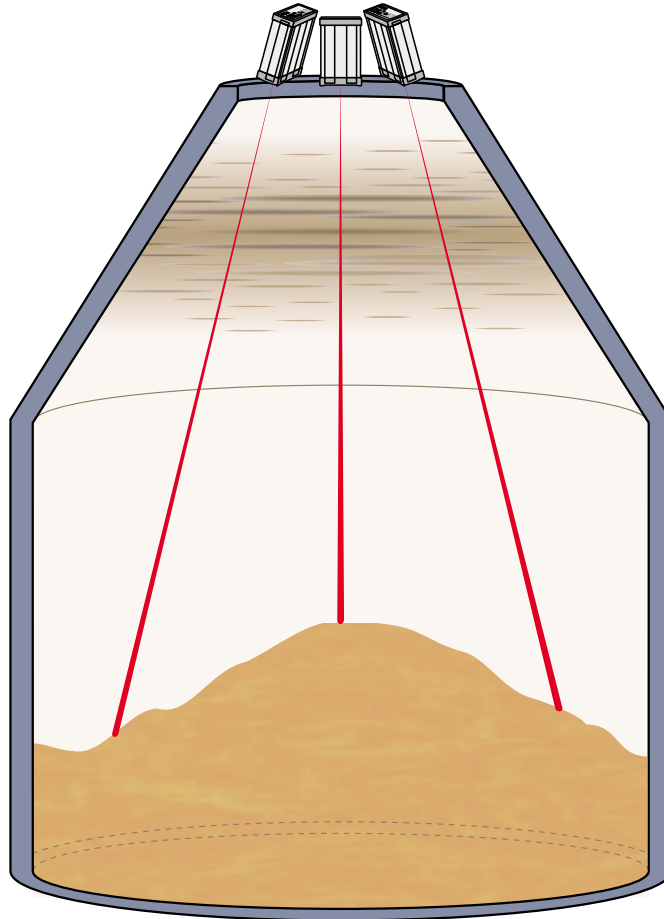
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Applications of **RIEGL** Laser Instruments

Problem: Wood-chip level measurement at a paper mill

Solution:

There are three LD90-450 on each silo, each tilted slightly away from the center. The surface orientation of the wood chips changes greatly throughout the process, thus requiring multiple measurement points to accurately determine material volume.



Advantages:

- ✓ Exact calculation of the volume possible
- ✓ Reliable operation even in very dusty environment
- ✓ High measurement resolution
- ✓ Narrow measuring beam

Performance:

- ✗ Measuring range up to 150 m
- ✗ Accuracy typ. ± 25 mm
- ✗ Repeatability up to ± 10 mm

Accessories:

- ☞ Jet spray ring flange
- ☞ Lens protection tube
- ☞ Vertical mount for silo measurements
- ☞ Adjustable mounting base

(Continued on the next page)

Applications of **RIEGL** Laser Instruments



LD90-450 installed in a flange mount enclosure

