

Overview of Indutech Ash Analyzers

Type	Measuring Principle	Measured Parameter	Advantage	Limitation
GTA 1000-1	Dual Energy Gamma Transmission with Cs-137 and Am-241 as sources	ash content	contactless low cost	particle < 300 mm influence of elemental composition
GTA 1000-2	Dual Energy Gamma / X- ray Transmission with Cs-137 and an X-ray tube as sources	ash content	contactless improved accuracy compared to GTA 1000-1	particle < 300 mm influence of elemental composition
GTA 2000	Triple Energy Gamma / X- ray Transmission with Cs-137, Am-241 and X-ray tube	ash content	contactless iron compensation	particle < 300 mm other elements as Ca must be constant
OXEA 500-1 2 pending patents	XRF / backscatter over belt ash analyser	ash content	contactless compensation of elemental ash composition	particle < 75-100 mm (3" - 4") distance to surface 70 - 230 mm
OXEA 500-3 2 pending patents	XRF / backscatter over belt ash analyser	ash content elemental composition of ash for elements with Z > 19 (Potassium)	contactless compensation of elemental ash composition	particle < 75-100 mm (3" - 4") distance to surface 70 - 230 mm
GTA 3000-1 / OXEA 600-1 3 pending patents	Dual Energy Gamma Transmission + OXEA 500	ash content	contactless compensation of elemental ash composition improved accuracy compared to OXEA 500-1	particle < 75-100 mm (3" - 4") distance to surface 70 - 230 mm
GTA 3000-3 / OXEA 600-3 3 pending patents	Dual Energy Gamma Transmission + OXEA 500	ash content elemental composition of ash for elements with Z > 19 (Potassium)	contactless compensation of elemental ash composition improved accuracy compared to OXEA 500-3	particle < 75-100 mm (3" - 4") distance to surface 70 - 230 mm
OXEA 1000 patented 3 pending patents	XRF / backscatter	ash content elements with Z > 10	compensation of elemental ash composition best accuracy	particle size max . < 50 mm, avg.< 25 mm distance to surface ~20 mm sled or bypass belt application
OXEA 2000 patented 3 pending patents	XRF / backscatter	ash sulphur elements with Z > 10	compensation of elemental ash composition best accuracy	particle size max . < 50 mm, avg.< 25 mm distance to surface ~20 mm sled or bypass belt application
OXEA 3000 patented 3 patents pending	XRF / backscatter	ash, sulphur, volatiles, ash fusion, type recognition elemental ash composition Z > 10	compensation of elemental ash composition best accuracy	particle size max . < 50 mm, avg.< 25 mm distance to surface ~20 mm sled or bypass belt application

All ash analyzers can be equipped with our PMD 2450 Microwave Moisture Meter to determine the Moisture Content and Calorific Value in addition to the Ash Content.

OXEA® 1000 to OXEA® 3000 can be delivered:

- as atline version to measure samples in the laboratory or in the field within 3 minutes
- with optional type recognition and automatic switching of calibration parameters