



*Introducing the **NEW** CB Omni:*

“The Best of the Best”

Online Elemental Analysis

- Measure 100% of your raw materials on your existing conveyor
- No sampling required
- Material passes through system on your existing conveyor
- Penetrates all material on belt i.e. not just a surface technique
- Proven technology with over 250 instruments installed
- Safe, reliable, easy to install

NEW CB Omni



CB Omni

- Thermo has made the term **CB** common jargon in the cement industry, with its 250 **C**ross**B**elt analyzers sold to cement producers throughout the world
- **Omni** comes from the Latin *omnis*, meaning all, since this new analyzer truly does it all
 - Applications: stockpile, sorting and raw mix
 - Industries served: cement, coal, minerals
 - Belt widths: 24 inches to 84 inches (600 mm to 2 meters)
 - Ease of installation: no crane required, no need to cut conveyor truss, no sun protection required
 - Performance: best repeatability in the industry

CB Omni: it does it all

Introducing Thermo Scientific NEW CB Omni



- Rugged
- Precise
- Tailored to your application
- State of the art in so many ways
 - electronics
 - user interface
 - detector efficiency and geometry
 - shielding efficiency

Best of the Best Thermo Fisher Scientific and ASYS

- In September 2006 the two leading suppliers of online elemental analyzers--Thermo Electron and ASYS--joined forces by way of acquisition
- Their experience and technological leadership had led over the years to more than 300 units sold and legions of happy customers
- The combination of these two top-notch engineering teams quickly resulted in the emergence of a new product incorporating the best in
 - Electronics
 - Pulse processing
 - Detector design
 - Shielding
 - User interface
 - Calibration methods
 - Auto diagnostics

NEW CB Omni

The CB Omni: The Best of the Best

ThermoFisher
SCIENTIFIC

(Formerly Thermo Electron Corporation)

ASYS

(Analyser Systems Inc.)

- Revolutionary detector design with improved efficiency and flexibility in number and position
- Easy to install-takes modularity to the next level with no need to cut belt line and components that do not require lifting equipment
- Mounts directly on conveyor line
- Adaptable to all belt sizes and material types
- Superior accuracy owing to calibration methods, spectral analysis process, latest generation electronics and ABLC
- Experienced service organization located throughout the world
- Applications expertise coupled with proven optimization software and highly popular user interface





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Discover the power of two working as one.

CB Omni Design Goals

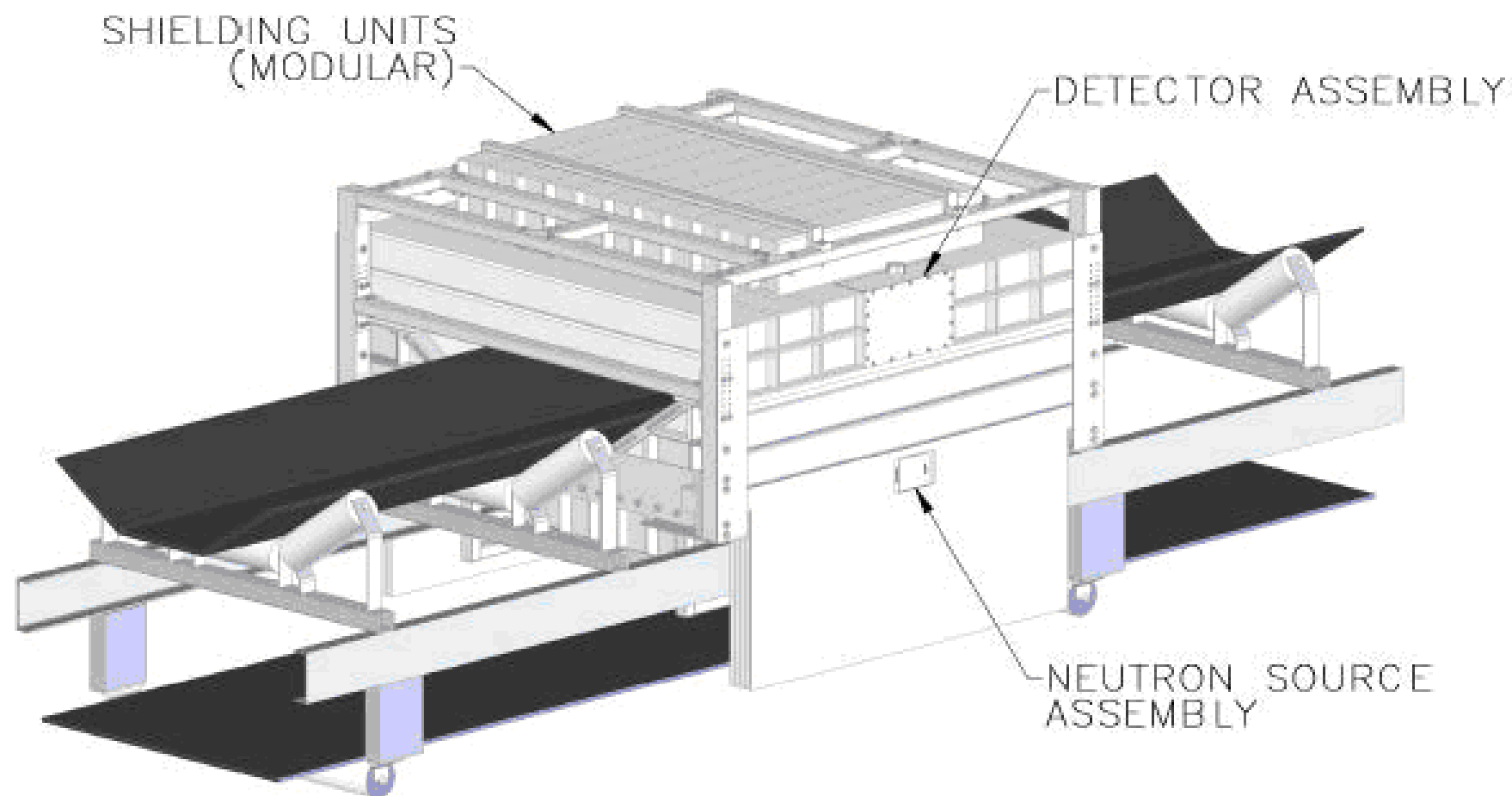
- Reduce installation costs
 - Significantly minimize modifications needed to conveyor belt line
 - System can be installed on existing conveyor support structure
 - Minimal to no rerouting of cable conduits
 - Smaller, more compact design to enable installation into locations with limited clearance
 - Less weight to support
 - No building or environmental protection required
 - Modular blocks for shielding can be moved by 1-2 people
- Highly configurable and flexible
 - Interchangeable shield blocks
 - Accommodate most all conveyor sizes
 - Accommodate most all process conditions
 - Accommodate most common idler angles
 - Moveable to new location possible with minimal changes

CB Omni Design Goals

■ Increase Performance

- Redesign detectors and electronics for higher efficiencies (40% more efficiency achieved)
- Provide for multiple detector capabilities
- For those not concerned with precision (most stockpile customers), deliver same performance with less source strength
 - lower radiation levels
 - reduced cost of ownership as source replenishment costs are less
- Provide for adjustable detector positions
- Incorporate means for robust and reliable accuracy (ABLC)
- Utilize the newest state-of-the-art signal processing electronics
- Implement the most efficient pulse pile up rejection methods on the market
- Wireless communications option
- Utilize best user interface

Modular, Easy to Install CrossBelt Omni

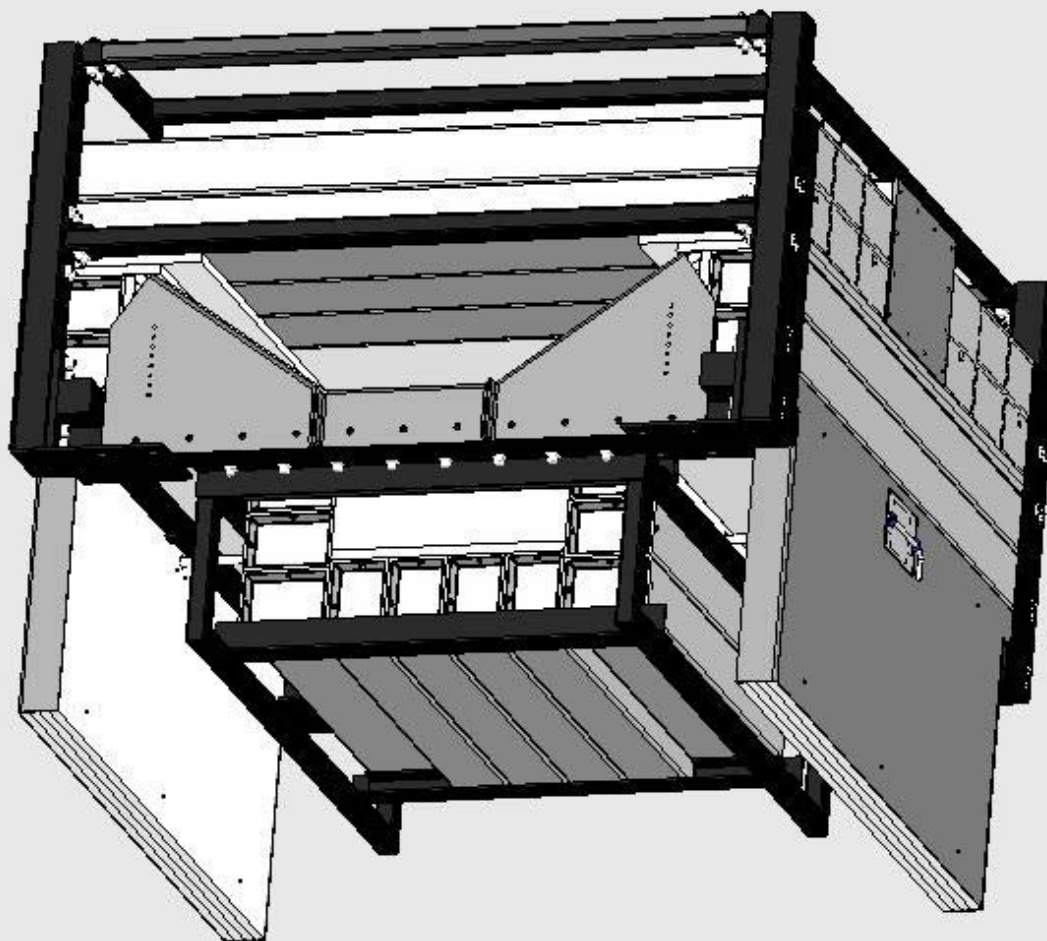


CB Omni - Ease of Installation

- Unique frame assembly ties modular shield blocks together
- Frame assembly sits on existing conveyor structure
- Modular components are placed into the frame once it is on the conveyor line
- System is “built in place” around the existing conveyor
- Most all modular components can be lifted into place “by hand” using 1 or 2 people



CB Omni – Mounts on Existing Conveyor Structure



How will the NEW CB Omni help you?

1. Better performance

New detector types, coupled with the ability to scale to four separate detectors, offers unprecedented repeatability levels

Automatic belt loading compensation (ABLC) for widely variable flow conditions



How will NEW CB Omni help you?

2. Easier to install

No need to cut the conveyor structure

Rerouting of cable conduits may be reduced

Less frequent need to cut away siding or walls

Will fit into locations with limited space alongside (e.g., parallel conveyors in a bunker feed gallery)

Less encroachment on walkway space

Man handleable if necessary

Less weight to support



How will the NEW CB Omni help you?

3. Superior flexibility

Can be moved from one location in the plant to another, even if belt widths are different.

Don't buy more performance than you need. Source loading and number of detectors suited for your application.



How will NEW CB Omni help you?

4. Better reliability

Latest generation electronics

Auto diagnostics





The right chemistry makes all the difference.