



ULMA CONVEYOR COMPONENTS

Reliability in Motion





COMPONENTS DESIGNED TO LAST WHEN CONDITIONS NEVER LET UP.

We design optimized solutions for the specific demands of each installation.

CHALLENGES WE HELP KEEP UNDER CONTROL

- **Material buildup on the return side.**
- **Blockages caused by dust and water ingress into the system.**
- **Premature wear caused by abrasion.**
- **Risk of overheating or fire.**
- **Handling difficulties in hard-to-access areas.**
- **Structural failures at critical points.**
- **Unscheduled shutdowns.**

We combine engineering, in-house manufacturing, material selection, quality control, laboratory testing, and field follow-up.



Because no two conveyors are the same, one-size-fits-all solutions are not enough.

More than 65 years of industrial experience, now powered by the most advanced Industry 4.0 technology.

RELIABILITY STARTS WITH HOW IT'S BUILT

RELIABILITY DEPENDS ON UNDERSTANDING THE CHALLENGE.

Before proposing a solution, **we study what is happening on site**, the conditions the conveyor has to withstand, and what it needs to improve operational performance.

From there:

- **We design and manufacture components** adapted to each specific application.
- **We validate performance** through laboratory testing, resistance tests, and field follow-up.
- **We support the operation** through close technical collaboration, helping adjust, improve, and respond when the installation requires it.



ROLLERS

CEMA B/C/D/E/F/G

High-performance materials and components.

Configurations for different loads and environmental conditions.

Validated in the laboratory and in the field.

Developed to last under the most demanding conditions in bulk material conveying:

STEEL

Rollers

Robust · Durable · Versatile



The range that has built ULMA's reputation for reliability.

Robust and durable rollers. Designed for a long service life under the most demanding operating conditions.

Finishes:

- Painted
- Galvanized
- Anti-corrosion treatment

Options:

- ATEX
- Balanced

COMPOSITE

Rollers

Ultra-lightweight · Extra durable · Quieter



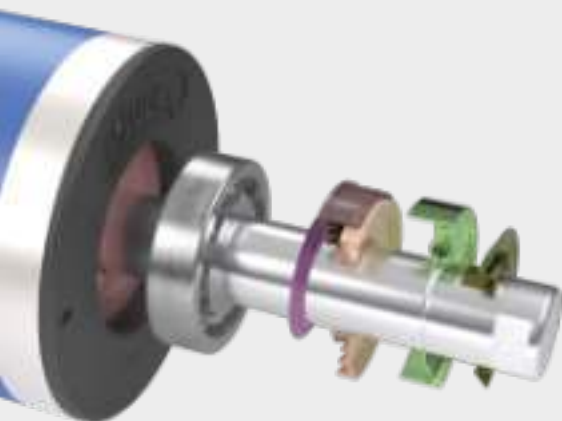
The performance of CEMA E and F steel rollers, with less weight, less noise, and less wear.

Its reinforced structure maintains dimensional stability and proper component fit under high loads, corrosion, temperature variations, vibration, and installation stresses.

- Up to 50% less weight than a metal roller.
- Noise reduction of approximately 10 dB.
- Greater shell wear resistance.
- Reinforced bearing housing-shell interface.

ULMA SEALING SYSTEM:

A key factor in the long service life of every ULMA roller.



It combines labyrinth geometries, contact elements, and lubricated barriers to prevent the ingress of water, dust, and particles, while helping expel contaminants from the system.



STAINLESS

Areas near magnetic separators



IMPACT

Loading and feed areas



COATED

Wet areas, abrasive environments, or areas with chemical agents
Coatings: rubber, polyurethane, and HDPE



LOW NOISE

Low-noise emission environments

Below 70 dB(A) at 750 rpm



ANTI-ROLLBACK

Inclined areas

Holding torque: 90 Nm

LOW TEMPERATURE

Extreme cold and water

RETURN ROLLERS



Rubber rings

For standard conditions



Polyurethane rings

For demanding conditions



Injected polyurethane

For extreme conditions

Configurable material evacuation.

All models can be requested with flame-retardant material (UL94 V-0 standard).

	RUBBER RINGS	ULMA PU RINGS	INJECTED PU
Load capacity	★	★ ★	★ ★ ★
Abrasion resistance	★	★ ★	★ ★ ★
Thermal behavior	★	★ ★	★ ★ ★

CARRYING SYSTEMS

GARLANDS

Carrying, return, and impact

They provide a flexible structure that adapts to belt movement:

- **Improves self-alignment.**
- **Absorbs dynamic loads and material impacts.**

Recommended for high-capacity, high-speed conveyors handling large-sized material.



FRAMES

Standard, self-aligning, retractable, and transition

They ensure proper support, positioning, and alignment of the rollers.

By adapting the frame to each working area, **the system gains reliability and greater control over belt behavior.**



GAZIMO® MONITORING SYSTEM

DETECTION OF **THERMAL** AND **ROTATIONAL**
SPEED ANOMALIES IN ROLLERS



Features:

- Visibility of roller condition in hard-to-access areas.
- Early detection of potential failures associated with blockages or overload-related damage.
- Simple installation in three steps: place, scan, and connect.
- Flexible data storage: on-premise or cloud-based.
- Visualization through the GAZIMO® platform or the customer's ERP.
- Sends data even when the roller is not rotating, helping anticipate the risk of overheating caused by blockages.

PULLEYS

ROBUSTNESS AND BALANCE
FOR SAFE POWER TRANSMISSION

Technical keys:

- Robust design for high loads.
- High resistance to frequent start-ups and sudden belt tension peaks.
- Welded joints positioned away from the highest-stress areas.
- High-quality lagging with adhesion testing.
- Calculation, sizing, and design adapted to each application
- Custom manufacturing according to customer requirements.



Diameters	Shafts	Tensions
Up to 1600 mm	Up to 500 mm	Up to 1900 kN



Copper



Nickel



Oil Sands



Lignite



Coal



Fertilizers

We are where conveyors are pushed to the limit and reliability makes the difference.

ULMA CONVEYOR COMPONENTS *in the world*

■ ULMA CONVEYOR COMPONENTS
■ SALES NETWORK



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Let's talk about the critical points of your conveyor:
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