

Innovation, Performance & Reliability

3 INCREASING GRINDING PERFORMANCE

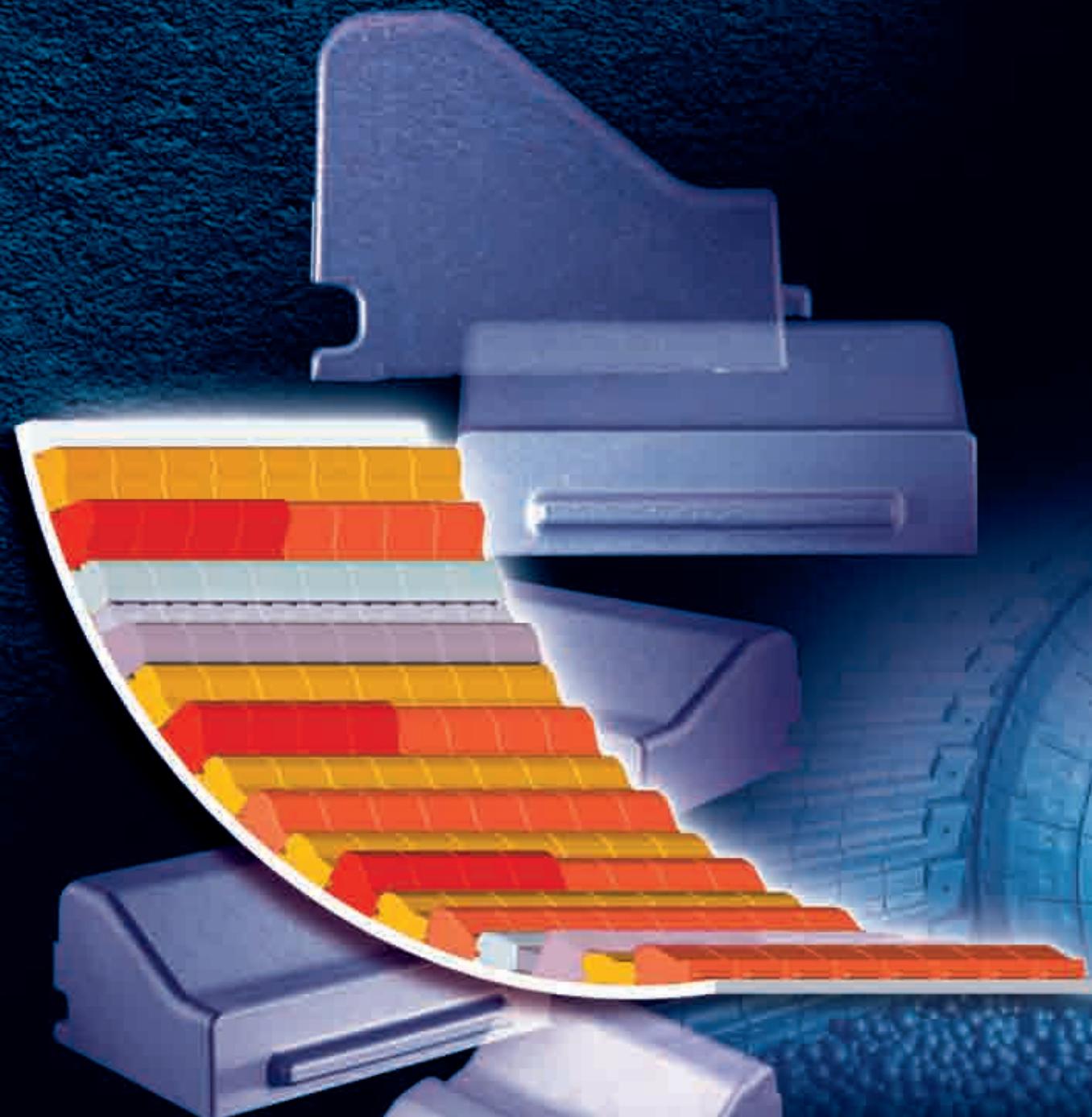
- **Tailor-made solution**
 - modularity lets you choose the best combination based on the product to be ground
- **Optimum grinding performance**
 - improved crushing due to this dual modularity of Xlift® (circumferentially and axially)
 - the constant profile means the lifting effect lasts longer -> increased productivity

4 SIMPLIFYING THE GROUP MANAGEMENT OF LININGS

The development of the Xlift® concept and its 3 modular plates offers the following **advantages**:

- **Simplified technical policy:** once the right combination of modular plates has been chosen, based on the operating conditions, grinding installations can be standardized. This can be done at a production site or within a Group. Wear, performance and grinding costs of mills using the Xlift® concept can be better predicted.
- **Simplified group logistical management:** Xlift® significantly improves information management. The knowledge of the specific solution being applied in each mill and the plates available at other plants allows the option of procuring supplies from one of the group's other plants.
- **Economies of scale:** there is the possibility of grouping together the needs of several mills or plants. The Xlift® solution allows group purchases to be made and accurate supply schedules to be created.

INNOVATION, PERFORMANCE & RELIABILITY



EUROPEAN ZONE
MAGOTTEAUX S.A.
Rue Près de la Tour, 55
4051 Vaux-sous-Chevremont
BELGIUM
Phone 32/4/361 7617
Fax 32/4/361 7153

AMERICAN ZONE
MAGOTTEAUX INC.
One Maryland Farms, Suite 200
Brentwood, TN 37027
USA
Phone 1/615/385 3055
Fax 1/615/297 6743

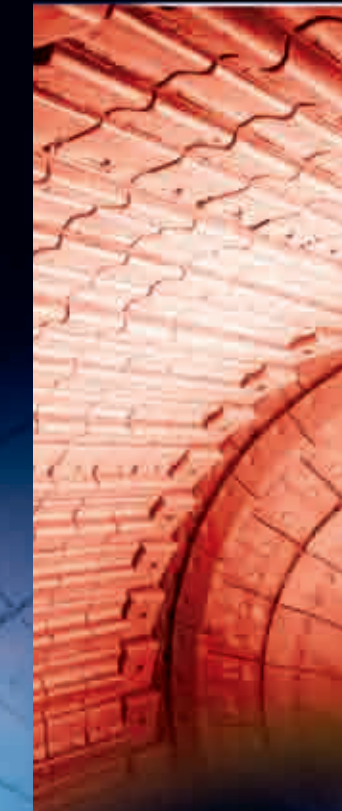
ASIAN ZONE
MAGOTTEAUX PTE LTD
170 Upper Bukit Timah Road # 19-02 Bukit Timah
Shopping Centre
SINGAPORE 588179
Phone 65/6466 3933
Fax 65/6466 5700

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XLIFT®

LINING SOLUTIONS



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INNOVATION, PERFORMANCE & RELIABILITY

- Xliff®:
- an innovative lifting lining concept for ball mills – raw material and cement.
 - a modular system consisting of **3 basic plates** that are interchangeable, light and wear resistant.
 - a **patented solution to replace all existing solutions.**

Principal characteristics

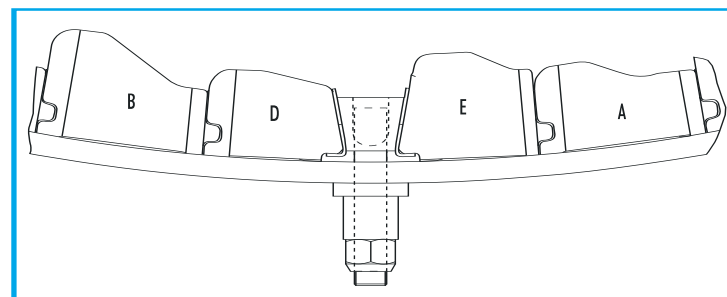
Xliff® is developed for the first chamber of DIN and similar mills of 3.0 to 5.4 meters in diameter.

Xliff® is:

- **Total modularity along the length and/or circumference.**

By utilizing different combinations of interchangeable plates, a specific solution can be applied for all operational grinding conditions and all existing configurations.

- **A new high-chrome alloy.**
- **A new fixation and tightening system.**



- **Perfect look and dimensional precision of the plates.**

With the development of a new manufacturing process, gaps between the plates are reduced to a minimum and the plates have a smoother surface that is free of oil.

- **A single specialised production site** located in Europe (Belgium).

- **Light plates** which comply with the most recent European safety directives.



Plate	Lift	Weight
Type A	Low	18 kg
Type B	Medium	21 kg
Type C	High	24 kg



INNOVATION

PERFORMANCE

RELIABILITY

Principal advantages

1 REDUCING MAINTENANCE COSTS

- **Quick and easy installation:** due to the new fixation system.
- **Easy to handle,** less effort, **maximum security,** less risk of injury: due to the reduced weight of the plates.
- **Easier maintenance & reduced maintenance costs due to:**
 1. Thanks to a new fixation, installation time is reduced by 30% -> lower installation costs.
 2. Reduced gaps between the plates: no more balls wedged in between.
 3. Interchangeability: possibility of using the same plate for different mills or plants within a diameter range.

2 EASIER LOGISTICS AND DELIVERY

- **Logistics and delivery are made easier with a permanent inventory held at Magotteaux.**

A complete lining system is now available within a **maximum time of 2 months.**

Plants benefit from a shorter delivery time: Xliff® parts (85% of parts) are delivered within 2 weeks **ex-works Belgium.**