

### Where wear bites in cement & concrete

Cement and concrete operations subject equipment to **sliding abrasion** (limestone, clinker, aggregate), **impact abrasion** (clinker crushing, ball-mill duty) and often elevated **temperature** that softens ordinary mild steel. Wear types usually overlap. Quenched-and-tempered (Q&T) abrasion-resistant plate is the proven response - high core hardness with the toughness to take impact, and far better wear-to-cost than mild steel, manganese steel, ceramic or vulcanised rubber linings.

### Components where AR plate goes

In a typical cement plant, Tradepass AR wear plate is supplied for:

- Ball mills - inlet chutes, gratings, classifier rejection cones, mill liners.
- Vertical roller mills (VRMs) - grinding-table cladding, reject cones, classifier vanes.
- Stacker / reclaimer scrapers, screw conveyors, apron conveyors and drag conveyors.
- Hopper, silo and elevator-bucket liners; cyclone liners.
- Primary crusher feeders, chutes, screens, grizzly bars and clinker crusher liners.
- Centrifugal fan blades and guide vanes (high air-stream abrasion).
- Cement bulkers, transit mixers, concrete pumps.

And in concrete plants:

- Concrete mixer drums and their internal blades.
- Planetary mixer walls, side lining and mixer blades.
- Horizontal-shaft mixer paddles and scrapers.
- Transit-mixer discharge chutes.
- Steel moulds for concrete blocks, pavers and precast.

### Grade recommendations from the Tradepass stock range

Where it goes	Recommended grade	Tradepass stock
Light wear: small chutes, hoppers, light liners	AR200	5-25 mm, both warehouses
General wear: conveyors, mixer drums and walls, mill chutes	AR400	2-100 mm, both warehouses
Heavy wear: VRM rejection cones, rawmill wall liners, planetary mixer blades	AR500	3-80 mm, both warehouses
Extreme abrasion: clinker crusher liners, ball-mill impact zones	AR600	5-16 mm, both warehouses
High-impact: crusher jaws, hammer-mill hammers, rail-style transfer points	Mn13 (work-hardens to ~550 HB)	6-100 mm, both warehouses

Plates are cut to size, bevel-prepared and formed where the part needs it, supplied with **mill test certificate** showing heat number, chemistry and mechanicals - traceable from the mill to your shop floor.

### Why Tradepass

Mill-direct import from leading Indian and global mills - Tata Steel, AMNS India, Jindal Steel (JSPL), Baosteel, Shougang. Both Kalamboli and Faridabad warehouses carry the full AR range plus S690QL high-strength plate. WhatsApp us the equipment and the wear you're seeing - we recommend a grade, thickness and cut size, usually within the hour during working hours.