

Minscan®-L – Semi-Automatic Refractory Maintenance for EAFs

Precision maintenance begins with precision data.

The advanced two-arm maintenance system of Minscan®-L is designed to repair refractory linings across all critical areas of electric arc furnaces (EAFs), from the furnace center and banks up to the upper edge of the water-cooled panels.

Flexible, upgradable mechanics

- Continuous 360° gunning head rotation
- Simultaneous vertical movement for full-height coverage
- Remote-controlled operation for improved safety and ergonomics
- Upgradeable system architecture for future requirements

Operators can predefine up to 20 EAF zones, each repairable with parameterized gunning patterns, ensuring consistent quality, repeatability, and efficient material use.

Laser-guided decision support

Minscan®-L is supported by a LaCam® laser measurement system, providing:

- Accurate data on refractory wear and wear rates
- Advanced analysis tools for maintenance planning
- Clear visual insight to support operator decisions

Spraying is executed semi-automatically, combining laser-based measurements with the operator's visual assessment. This keeps human expertise firmly in control while significantly increasing precision.

 The result: safer operation, optimized refractory consumption, and longer EAF campaign life.

#Steelmaking #Digitalization #IndustrialAI #Minscan #MINTEQ



