



HTT Engineering, spol. s r.o.  
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## HTT LVF™ EAF BURNER/SUPERSONIC INJECTOR

Compact high efficient burner  
/ supersonic oxygen injector

### FEATURES

- › Large volume flame (LVF)
- › Robust water cooled jacket made of forged copper
- › Operates deep in furnace to maximise efficiency and protect refractory
- › Steep oxygen impact angle in lance mode
- › Replaceable oxygen lance with supersonic nozzle
- › Furnace tight installation
- › Integrated carbon and lime lances in one unit
- › One burner design for sidewall and EBT installation

### BENEFITS

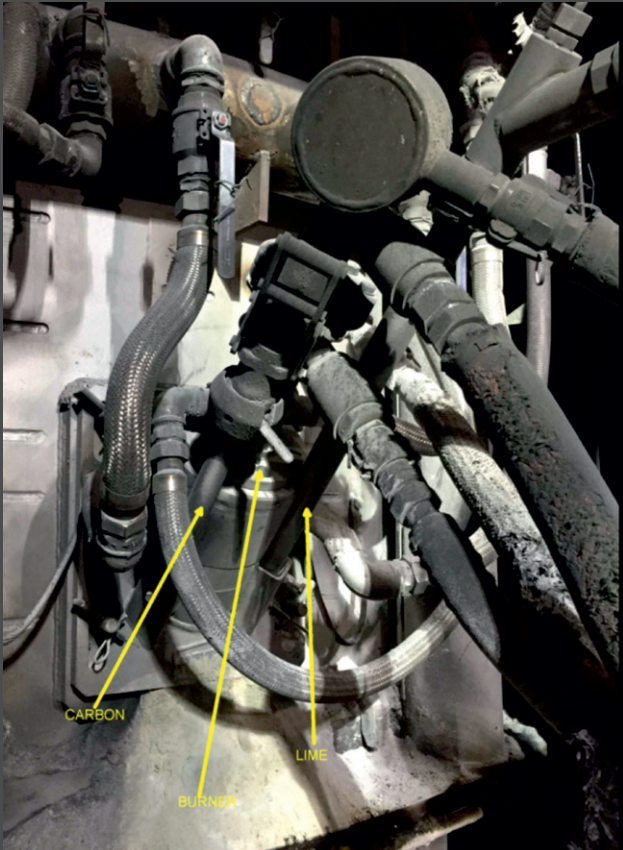
- › Improved scrap preheating efficiency
- › Efficient oxygen injection - steep oxygen impact angle / short distance to bath
- › Lower refractory wear due to burner tip over refractory
- › Compact unit with carbon and lime lances in one place
- › Carbon and lime are injected in vicinity of oxygen impact point, but without direct contact of injected particles with the flame / oxygen jet.





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## SIDEWALL AND EBT INSTALLATION WITH CARBON AND LIME LANCES



Available power up to 6 MW and 3000 Nm<sup>3</sup>/h oxygen flow, carbon and lime lances from DN32 to DN50 size. Powder injection capacity up to 150 kg/min per lance. Easy replacement of injection lances and oxygen nozzle. Only one panel opening 440 x 330 mm is sufficient for all injection functions – flame, oxygen, carbon, lime or other powder material.

