

# FT OIL BACKUP INJECTOR

## Underport burner

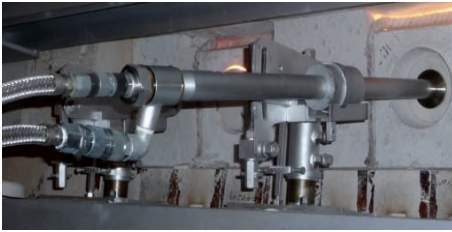


### Technical Data

- Fuel: Heavy Oil, Diesel
- Energy output: 0,26 ... 5 MW in 4 injector sizes
- Initial pressure: 6 ... 10 bar
- Operation pressure: 1 ... 4 bar + pressure atomized air
- Preheating: 90 ... 130 °C
- Hybrid operation: Natural Gas 13 ... 50 % caloric
- Tempering operation: All types of oil fuel possible
- Atomizing: Air or Natural Gas 10 ... 80 Nm<sup>3</sup>/h (0,5 ... 3,0 bar)
- Cooling air: 8 ... 25 Nm<sup>3</sup>/h (0,5 ... 1,0 bar)

### Technical Concept

- Inside atomizer in a novel configuration, forming an optimal free jet flow
- Optimizing of oil drop size distribution and minimizing of inside fuel deposition
- Mushroom head fitting to gas injector shape
- Possible for upgrade to dual firing



## Technological flexibility

- Three different operation modes of atomizing adjustable:
  - Inside atomizing, most reliable and low in maintenance
- Adjustable double atomizing
- Primary flame cone angle: 15 ... 40°
- Depending on atomizing operation mode
- Modular design of burner body and media supplying pipes allows
- Easy adaption to constructional limits of furnace design

## Maintenance benefit

- Atomizing gas parts stay free of oil
- Clean situation around the injector's working places
- Even for low-quality fuels applicable
- Long working cycles of the injector without maintenance / cleaning
- Long survival time in case of missing cooling air
- Atomizer is tolerant towards missing oil preheating

## Scope of supply

- Heavy Oil injectors with the required capacity
- Fully adjustable burner brackets
- Stainless steel flexible hoses

## Options

- Optimization of melting process, using CFD simulation
- Renting and maintenance contract
- Port design optimization
- Regular service during and after warranty period
- Control panels & safety trains delivery

