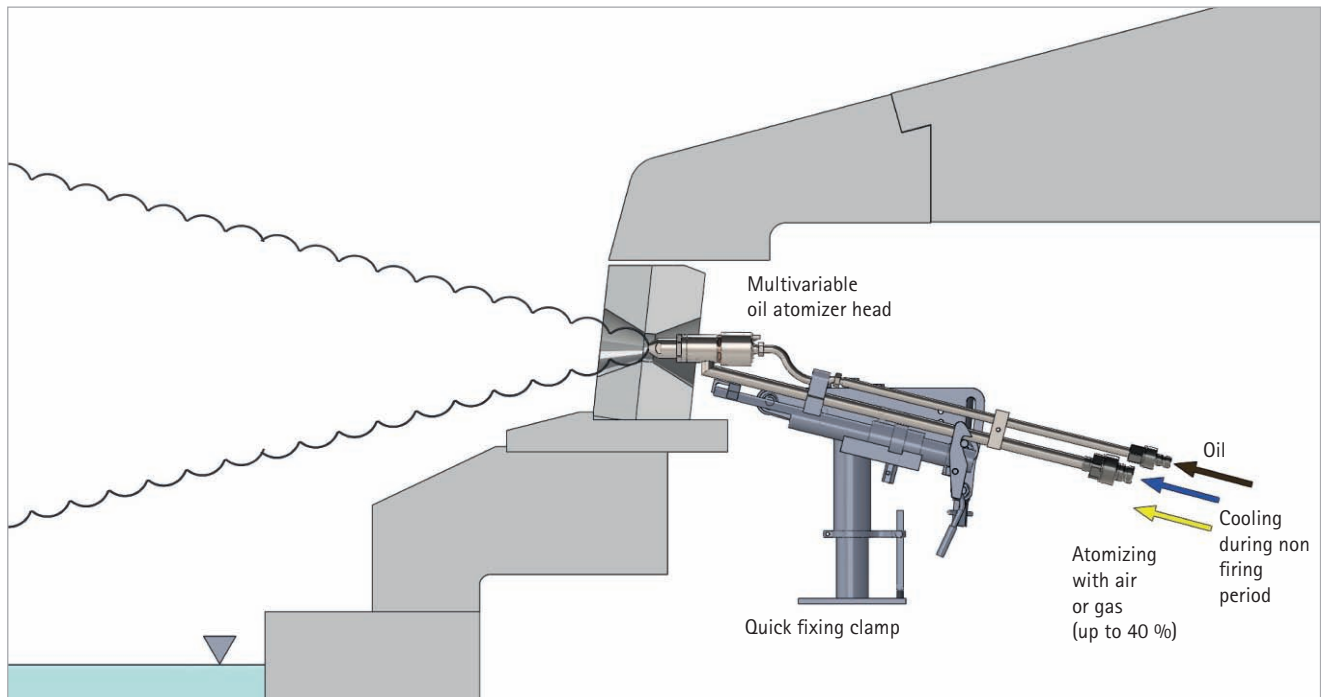


FT HEAVY OIL INJECTOR

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 Nm³/h (0,5 ... 3,0 bar)
- Cooling air: 8 ... 25 Nm³/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
- Outside atomizer designed for NO_x minimization with a new additional air cleaning ring, for protection against carbonium deposition
- Wide range of positioning by exposition of injector head and prepositioning at bracket and injector
- Use of advanced sealing solutions, avoiding thermal caused sealing leakages and problems with tightness of oil



Technological flexibility

- Three different operation modes of atomizing adjustable:
 - Inside atomizing
 - Outside atomizing
 - Double- (combination) atomizing
- Continuously variable adjustable inside and 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
- 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 Injector 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

