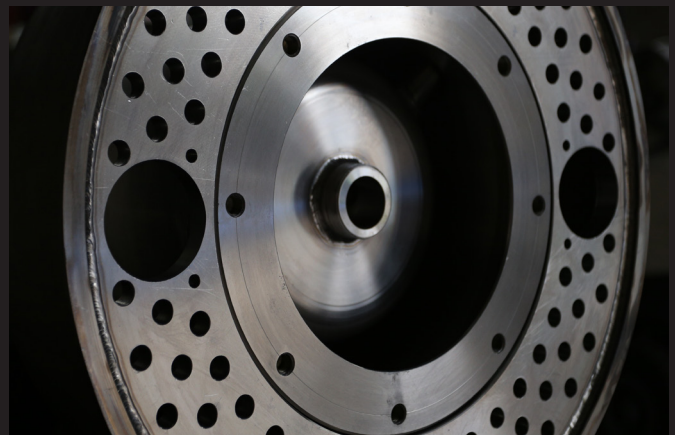
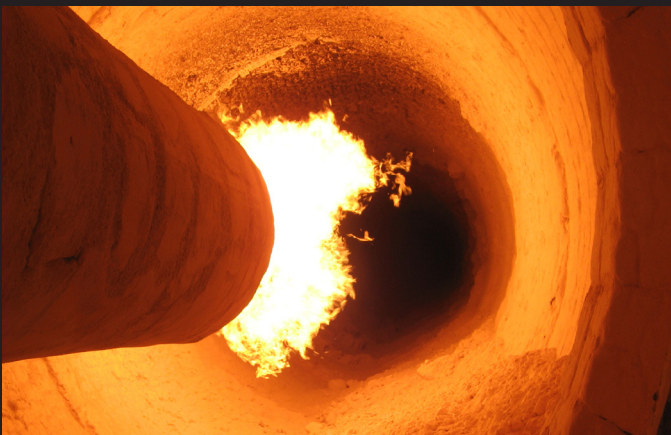


> IRON & STEEL



**Trust the industry preferred combustion  
supplier for iron ore projects**

# World leading supplier to iron ore projects across the globe

FCT Combustion's technologies are proven to deliver performance through reduced fuel usage, lowered emissions, improved safety and increased fuel flexibility.

As an industry leader, we have delivered more than 800 combustion systems for iron ore over the past decade. Our dedicated team have experience successfully optimizing pyro-processes across various environments and fuel types.

Our proprietary equipment and technology, coupled with our comprehensive project management system, means we can deliver cost effective combustion solutions of the highest quality in any region of the world.

Whether your process uses a grate-kiln or straight/traveling grate, we have the best combustion solutions and expertise to optimize your process and a network of international offices for local service and support.

## #1

World leading burner supplier to iron ore projects worldwide

## 1984

Delivering leading combustion technologies worldwide for more than 35 years

## R&D

In-house R&D technical centre with dedicated CFD team to ensure best performance

## Combustion technologies for grate-kiln optimization



FCT Combustion has been at the forefront of kiln optimization for more than 35 years. We offer proven burner technologies for grate-kiln application to suit your preferred fuel type.

The patented Gyro-Therm™ burner has been acknowledged by the EPA (USA) as a leading low NOx, high efficiency technology for natural gas fired kilns. Customers have reported significant fuel savings, increased production, quality improvements and major NOx emissions reductions.

- Natural gas primary fuel
- Multi-fuel capable in combination with solid, liquid or alternative fuels
- Wide flame adjustment and control
- Low primary air requirement

Turbu-Jet™ is FCT Combustion's flagship solid fuel burner, firing coal, petcoke or natural gas in tandem with other liquid or solid fuels including alternative fuel sources.

For the safe management and control of fuel to the burner system, custom burner management systems and valve trains are available.



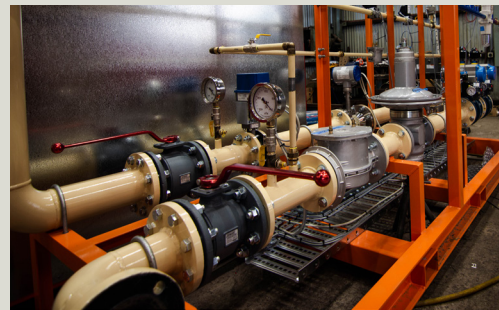
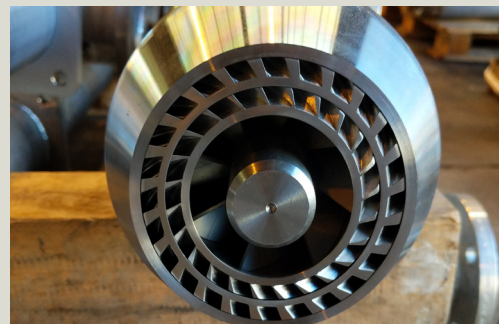
# Premium technology for traveling grate furnaces

FCT Combustion's I-Jet™ burner technology is the premier choice for iron ore pelletizing plants using straight/traveling grate furnaces, featuring:

- Very high turn down (1:30) to cover a range of firing rates; added ability to pre-heat the pellet kiln
- Excellent cold start-up stability
- Dual gas channels for optimum flame shape control
- Fuel flexibility to fire natural gas, low calorific gases and various oils such as tar and waste oils

Designed with replaceable gas and oil guns, fuels can be switched on demand. Oil guns can be fitted with an atomiser to suit the fuel, including air atomisation, pressure atomisation, and atomisers for oils with particulates.

The I-Jet™ system is supplied with a refractory burner block, integrating pilot burner, flame detector and sight port. For the safe management and control of fuel to the burner system, custom burner management systems and valve trains are also available.



## Choose the trusted industry experts to deliver performance

As a recognized OEM supplier with EPC capabilities, FCT Combustion delivers integrated combustion solutions. We place high value on customer service and are proud to support our clients to realize new levels of performance in iron ore pelletizing plants across the globe. See some of our selected references below:

- VALE
- LKAB
- OUTOTEC
- SINOSTEEL
- CLIFFS MINING
- METALLOINVEST
- NORTHERN HEAVY INDUSTRIES
- COMPANIA MINERA DEL PACIFICO

"FCT Combustion is our approved international burner supplier. Their Gyro-Therm™ technology means NOx is always well within regulations, the kiln refractory is not overheated and there are no damages, thermal shocks or clinker build up."

- Jailson Francisqueto, Vale





## Global expertise in combustion technology, delivered by a local team.

FCT Combustion are experts at delivering complete combustion solutions to high-temperature processing plants worldwide. Our best-in-class products are proven to deliver results and are currently optimizing the operations of industry leaders across the globe.

At FCT Combustion, your process is our priority. Our offices provide local, personalized support, backed by our global expertise, to deliver the best solutions for your process and environment.



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