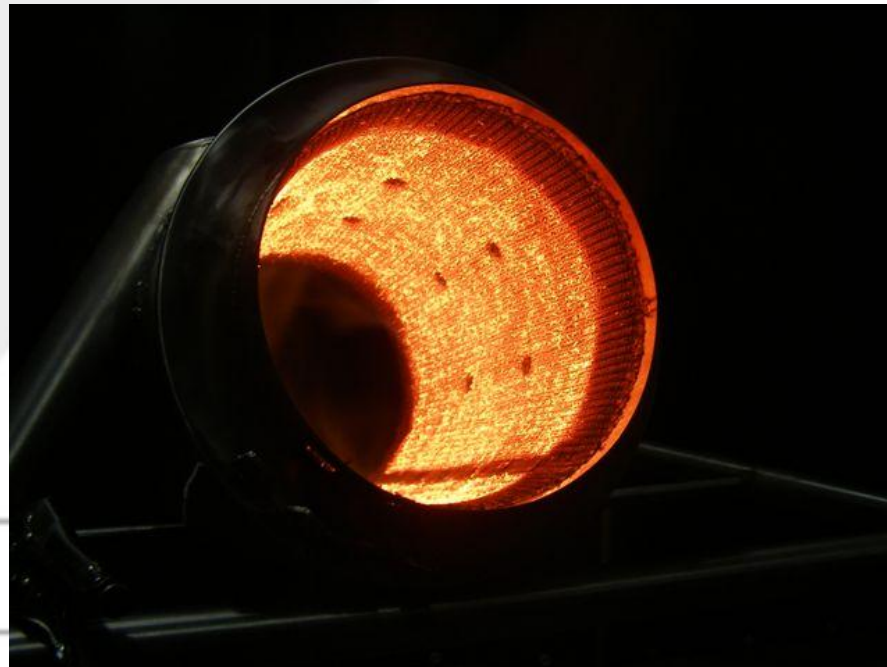


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Die cast preheat : an example with
the Metal Fiber Gas Technology !



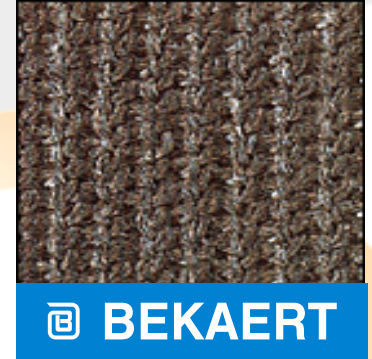
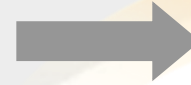
INDUSTRIAL APPLICATIONS

Because of its exceptional characteristics, the Metal Fibre Burner has been able to gain significant market shares in different applications. New developments are continually being made. There are new entries in the food and steel industry, coating, aluminium casting and the processing industry...

Metal Fiber Burner

→ Combustion support in **Fecralloy®** :

Knitted Metal Fiber
Bekinit® 200S

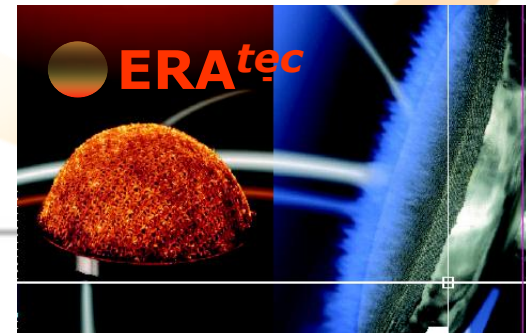


→ Infrared or Blue flame mode (Convection)

Supplies

→ Burners and Premix systems (Atmospheric, Fan driven...),
Control systems
Atmospheric, premixed and fan assisted all gas
burners made of stainless or aluminized steel.

Eratec can deliver integrated combustion packages and provide technical support to customers in all issues relating to the design.



Metal Fiber Burner



Shape versatility – Design adapted to the application

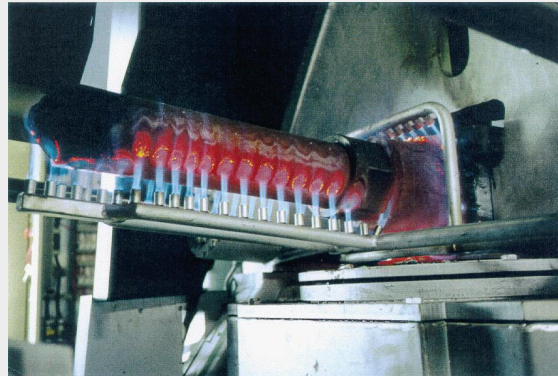
- *Most compact*
- *Most safe*
- *Most flexible*
- *Most clean*
- *Most efficient*
- *Most durable*

Therefore Most economic

Die casting of metals

Present situation

The pouring throats of die casting machines are heated with all kinds of gas burners



Pouring throats heated with cup burners

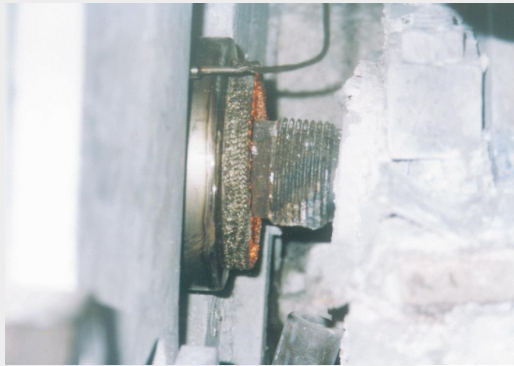
Problems

- Inhomogeneous heating ~ hot spots ~ durability of throat
- Material cools down and settles in the throat
- Inefficient heating
- Difficult to modulate for heat up and maintaining at temperature

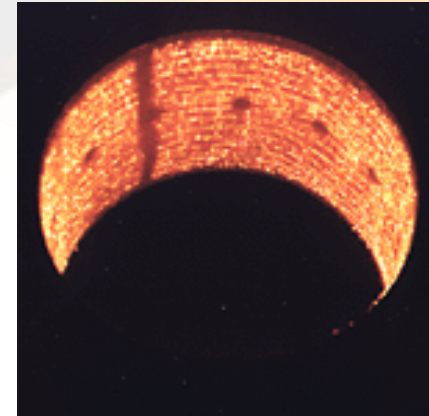
Die casting of metals

Solution

The Metal Fibre Burner mounted around the pouring throat



View of the radiant surface of the burner



- Cylindrical inward radiant Metal Fibre Burner
- Dimensions adapted to the pouring throat
- Radiant mode with low firing intensities
~ burner surface kept at steady temperature

Die casting of metals

Main advantages

- Power output adapted to the processed material
- Modulation for heat up and maintaining at temperature
- Efficient heating
- Homogeneous heating of throat

CONCLUSION

How we can work together?

→ **Process Improvement Strategy**

- Together we perform a gap analysis (where you are today and where you want to be tomorrow).
- Design a solution that will meet your needs.
- Evaluate the proposal: Cost-Benefit, Performance, Enhancements, Sizing, ... etc.
- Agreeing on the solution.
- Implement the solution.



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