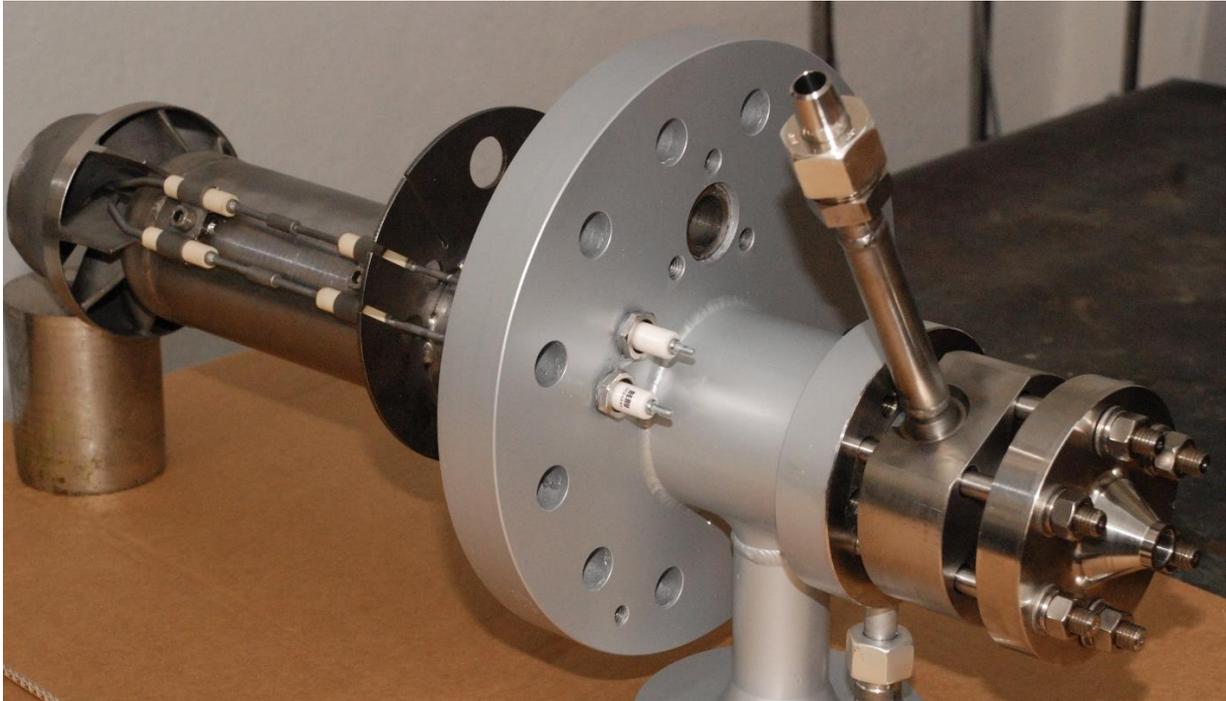


GAS TURBINE BURNERS

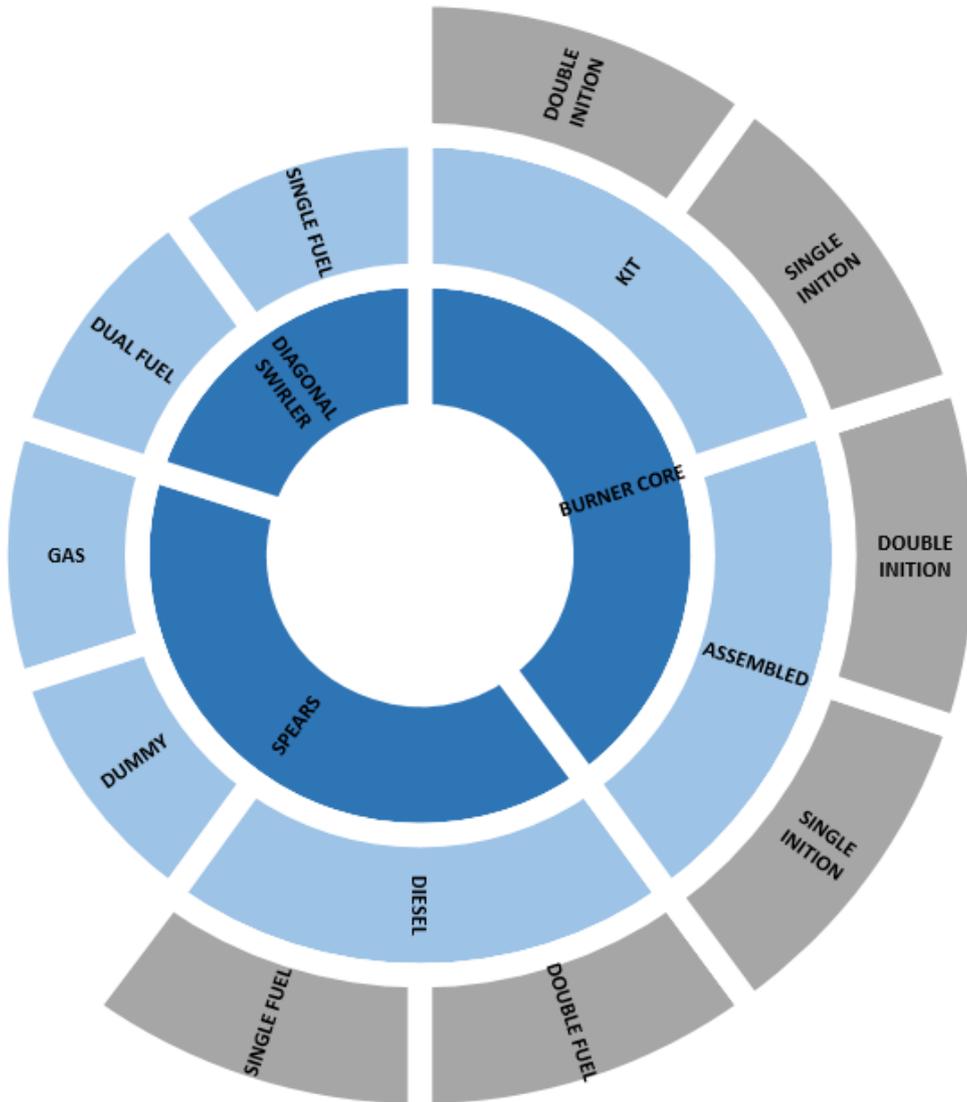


The SEC consortium, a stable organization between Samic and ETA companies, was born in order to produce and supply burner cores, spears and diagonal swirler for the combustion system parts of several kind of diesel fuel/gas turbines. These turbines have different power size, starting from 300MW up to 400MW

The various type of burner and swirler are produced and supply assembled after passing two steps of tests. In first step a no-destructive checks are focused to ensure the right construction of parts. The second step are the functional tests focused to characterize the product (flow rate/pressure curve).

The burner s can be with single or twice fuel, based on this they are supplied, if any, with diesel injection spear. These spear can be equipped of water injection system in order to decrease the NOx

Products



Injector Test Equipment

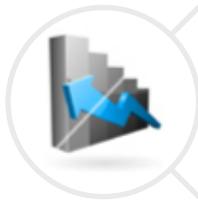
The injector test equipment is used to verify the produced spears are compliant with flow specifications requested by customer. The injector is collocated into a steel box with glass windows. Via hydraulic pump is powered with temperature controlled water. During the test the outward and return pressure are regulated and measured. Diagram of flow based on return pressure is obtained by an integrated weighing system. Transparent paneling allow the crucial flow radial distribution visual check.



SEC in Figures



Founded in 2012



Significant increase in turnover each year



Stable organization composed by two companies in market from over 20 years



10% reinvested in R&D

Turnover (in Euro)

2016	2017	2018
2.5M€	3.4M€	3.2M€

Supplied Product (in Set*)

Spears	Burner Core	Diagonal Swirler
26	50	25

(*) each set is composed by 16 or 24 pieces based on Turbine model

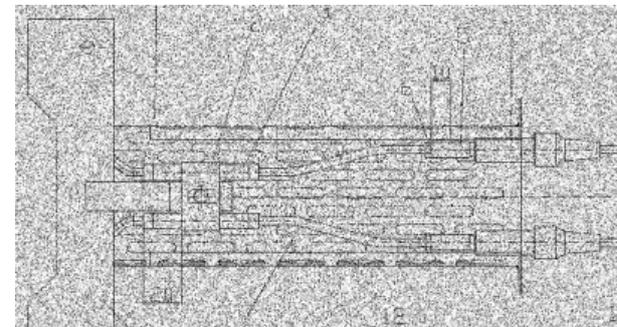
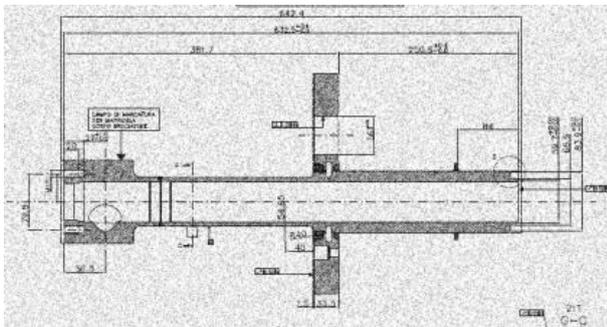
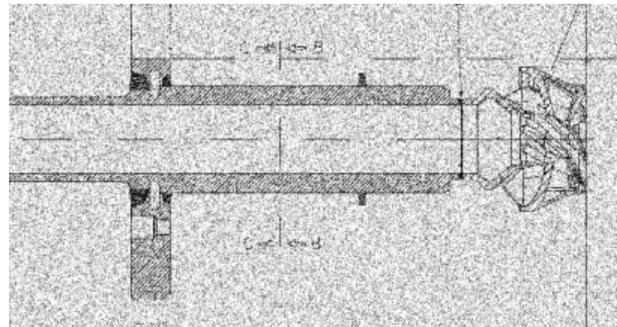
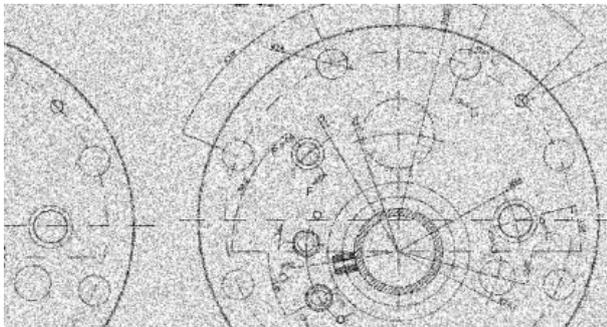
Production in detail

Set for 94.2 Turbine (each set is composed by 16 pics)

Burner core in Kit	Burner core assembled	Spears	Diagonal Swirler
18	17	15	12

Set for 94.3 Turbine (each set is composed by 24 pics)

Burner core in Kit	Burner core assembled	Spears	Diagonal Swirler
9	7	11	13



Contacts