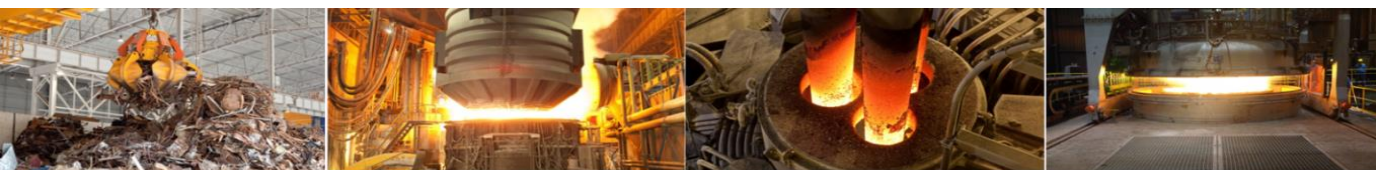
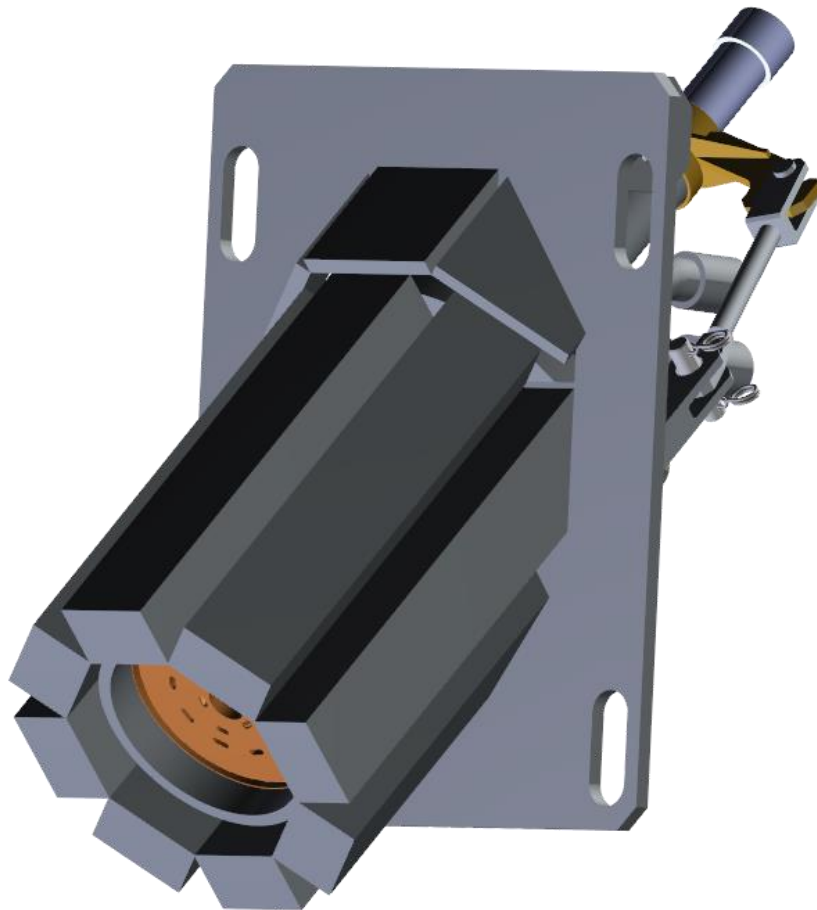


# **CONSO SUPERSONIC OXY-GAS INJECTOR**

Maximum performance, minimum maintenance



## **Steelmaking Special Products**

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# CONSO

## SUPERSONIC OXY-GAS INJECTOR

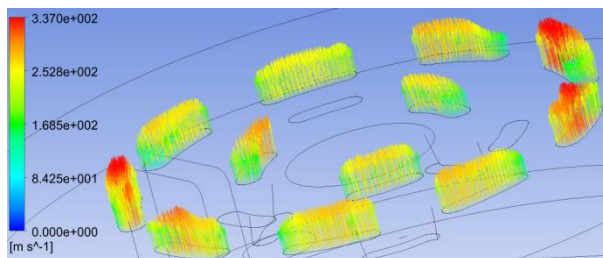
### Maximum performance, minimum maintenance

Continuous availability of reliable equipment is a market requirement. With its new generation CONSO, the SMS Group looks to improve the Overall Equipment Performance by increasing the Efficiency of Injection and Maximizing the Planned Production Time. The new design builds on years of experience with the earlier generation and has been improved by advanced fluid dynamics analysis. The result is a better burner – more concentrated and energy-efficient and with a marked longer service life. Start reaping the cost-savings benefits of the new, lighter, easier to maintain CONSO. It is ready when you are.

### Application

CONSO marks a new era in oxygen burners for electric arc furnaces. In terms of performance it represents a significant upgrade over its predecessors and rivals.

- The shape of the supersonic nozzle has been designed using CARD Software to enhance homogeneity in pressure distribution



- Monolithic Construction of burner body eliminates the possibility of gas leakages



### YOUR ADVANTAGES

- **Improved performance** thanks to the improved fluid path design and longer jet length
- **Reduced refractory wear** thanks to the adjustable burner angle
- **Longer service life** thanks to the robust construction and improved cooling system
- **Extensive Process Knowledge**
- **Our worldwide service and support network**

### TECHNICAL DATA

CONSO sizes	4 to 8 MW
Supersonic O <sub>2</sub> lance	1'500 to 3'000 Nm <sup>3</sup> /h
Weight	30 kg



**Optimized pipe path reduces pressure losses and improves gas distribution**

### Ease of Use and Maintenance

- Easy operation, no need for specialized maintenance
- Enhanced safety thanks to a new, fully welded head design (no risk of gas leakages)
- New mounting arrangement significantly reduces the time and effort of installation
- Head opening is easily cleaned by regular tools
- Well proven copper water-cooled box design
- Compatible with Concast water-cooled box

### For best results

In combination with CONSO, we recommend our automation control, valve stands and the SMS backflash detector system (BDSC).

Please contact us for more information.



**CONSO delivers maximal power when and where you need it**