

QUICK NOZZLE CHANGE FOR BOTTOM POUR LADLES WITH LESS REFRACTORY WORK



INNOVATION & TECHNOLOGY

THE CHALLENGE

The use of a stopper and nozzle in bottom pouring ladles for steel casting is a daily procedure. When the ladle is empty, the nozzle, which is normally a one-off product, has to be changed in the conventional way by knocking out the old one and using mortar to install a new one. Often the ladle has to cool down to do this.

FOUNDRY:

FAS was founded in 1972 in Urbisaglia, Le Marche, and it is still the only foundry in central Italy working in the production of special steels: a business deeply rooted in its territory, and one of the few Italian producers in the sector.

The search for high-quality innovative solutions led the company, at the end of the '80s, to invest heavily in the Repicast technology, in which it is currently world leader.

PARAMETER

Alloys: austenitic stainless steels CF8M and CF8;
carbon steel WCB and LCC

Weight of castings: from about 30 to 1200 kg

Casting temperatures: from 1550°C to 1650°C

Ladle weight: 2 tons of melt

Time between ladle refillings: about one hour

Time to replace stopper: about 15 minutes

FOSECO PRODUCTS

- VAPEX FosFlow base and pouring nozzle
- VISO MONOBLOC stopper
- Installation set

OUR SOLUTION

Our new VAPEX FosFlow system includes a reusable base nozzle. The base nozzle is conventionally installed in the bottom of the ladle. By using a special metal part, the nozzle is easily fixed without mortar and can be quickly removed and replaced with a new one after the pouring process. The ladle can remain hot.



FosFlow installation

THE OUTCOME

By using our VAPEX FosFlow system, the customer is now able to replace an inner nozzle or pouring nozzle within 5 minutes, without mortar, quickly and safely. The ladle can be returned to service much faster. Downtime is reduced.



Nozzle set up

KEY BENEFITS

Quick nozzle change without long refractory work

THINK BEYOND. SHAPE THE FUTURE.



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