Tight connection between ladle and tundish

The solution to the ladle shroud and collector nozzle connection

LTC offers:

- Safe and reliable submerged opening
  - Improved transition slab quality
- Improved ladle to tundish sealing
  - Reduced nitrogen pick-up
- Minimized free stream casting due to onboard ladle shroud
  - Reduced downgrade
- Enhanced safety through double edge closure
- Improved refractory life thanks to TEC (Two Edge Control)
- Replacement of permanent shroud manipulator support
- Increased shroud clamping force
- Higher slag detection availability
- Evolutionary concept via compatibility with standard ladle shroud and LTC14 upgrade kit
- Ready for robotic casting operation

Refractory components

High performance and improved tightness
Long-life refractory consumables:
- Bore size up to Ø110 mm
  - Inner nozzle (15kg) positive stop shoulder design
  - Upper plate (15kg) 455 x 272 x 45/77 mm
  - Lower plate (22kg) 455 x 272 x 45/77 mm
  - Collector nozzle (18kg)

Ladle Tube Changer for clean steel

The new ladle sliding gate concept for continuous casting
Tight connection between ladle and tundish

The solution to the ladle shroud and collector nozzle connection

VEGUVVUS LTC Ladle Tube Changer

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- Evolution concept via compatibility with standard ladle shroud and LTC14 upgrade kit
- Ready for robotic casting operation

- Four external bolt fixations
- Front access to slag detection device
- Spring loaded clamping for monoblock ladle shroud
- Main actuator for two edge throttling control
- Second actuator for nozzle/shroud exchange
- Large fl ank joint, inert gas protected connection between ladle shroud and mobile plate

Refactory components

High performance and improved tightness
Long life refractory consumables:

- Bore size up to Ø110 mm
- Inner nozzle (11kg) positive stop shoulder design
- Upper plate (16kg) 445 x 272 x 45 mm
- Lower plate (22kg) 445 x 272 x 45/77 mm
- Collector nozzle (18kg)

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Ladle Tube Changer for clean steel

The new ladle sliding gate concept for continuous casting

VESUVIUS LTC Ladle Tube Changer

LG24 / LTC14

- Inner nozzle with positive stop
- Canned plate
- Exchangeable collector nozzle
- Monoblock ladle shroud with flat sealing surface

LTC

- Inner nozzle with positive stop
- Canned plate
- Exchangeable collector nozzle
- Canned plate with argon piping

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LTC without LS manipulator

LTC without LS manipulator

LTC without LS manipulator

LTC with LS manipulator

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Canned plate with argon piping

Inner nozzle

Exchangeable collector nozzle

Monoblock ladle shroud

Exchangeable collector nozzle

Inner nozzle with positive stop

Canned plate

Exchangeable collector nozzle

Monoblock ladle shroud with flat sealing surface

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Front access to slag detection device

Spring loaded clamping for monoblock ladle shroud

Main actuator for two edge throttling control

Second actuator for nozzle/shroud exchange

Large flank joint, inert gas protected connection between ladle shroud and mobile plate

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