Tundish Gate
Submerged Nozzle Changer
Type 33QC-SNC/A
Tundish Gate Submerged Nozzle Changer Type 33QC-SNC/A

Overview
• Increased sequence length on tundish set-up due to SN change
• Low operational costs
• Play-free drive coupling
• No interruption of casting operation during SN change
• Increased productivity of the caster
• Process control technology for automatic casting
• Off-line assembly

Concept
• Combination of the proven INTERSTOP® Tundish Gate 33QC and the INTERSTOP® Submerged Nozzle Changer SNC-N
• No interruption of casting operation during SN change (<1 sec)
• Two independent and heat-shielded tensioning systems
• Inert gas application on tundish nozzle and plate joints
• Air-tight system concept supported by argon bath principle
• Fully supported lower plate for best plate stability and system tightness
• Blank plate for emergency shut-off

INTERSTOP® Flow Control Technology
• Automatic monitoring by detailed process visualization
• Fully automatic start-up features
• Automatic mold level control
• Precise steel flow regulation independent of refractory wear
• Programs for early breakout detection and mold overflow
• Long sequence casting

Assembly
• Ready-to-use refractories
• Tundish nozzle setting from inside or outside possible
• Separate preheating of submerged nozzle possible
• Semi-robotic SN handling available
• Tight push edge refractory design
• Eccentric self-locking design of housing
• Compact design
• Easy assembly and maintenance, designed to minimize the number of components

Mounting and Drive
• Configurable gates, no specific left or right gate required
• High availability of 33QC-SNC/A units due to off-line handling
• Easy and quick mounting of the 33QC-SNC/A to the tundish bottom
• by means of an assembly car
• Easily detachable hydraulic cylinders
• Hydraulic cylinders remain on tundish car
• All hydraulic circuits are closed-loop
• Designed for fully automatic casting
• High safety standard for operator and CCM

Main parts
- Starter tube
- Starter ring
- Nozzle top
- Nozzle
- Base plate
- Housing cover
- Handle
- Middle plate frame
- Middle plate
- Cylinder
- Cylinder hinge
- Housing
- Blank plate
- Monotube

Dimensions in mm

Tight push edges