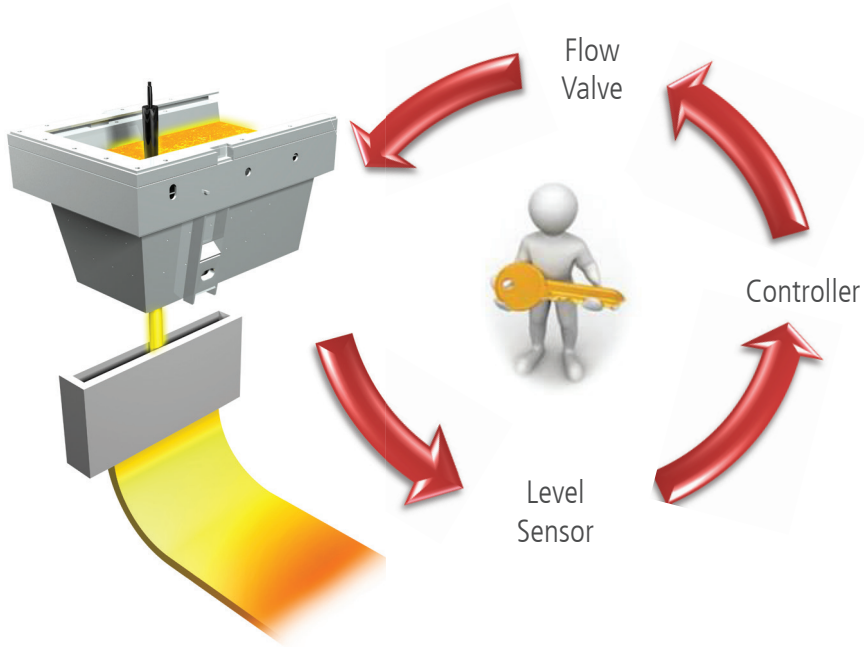


AMLC-SR SLAB

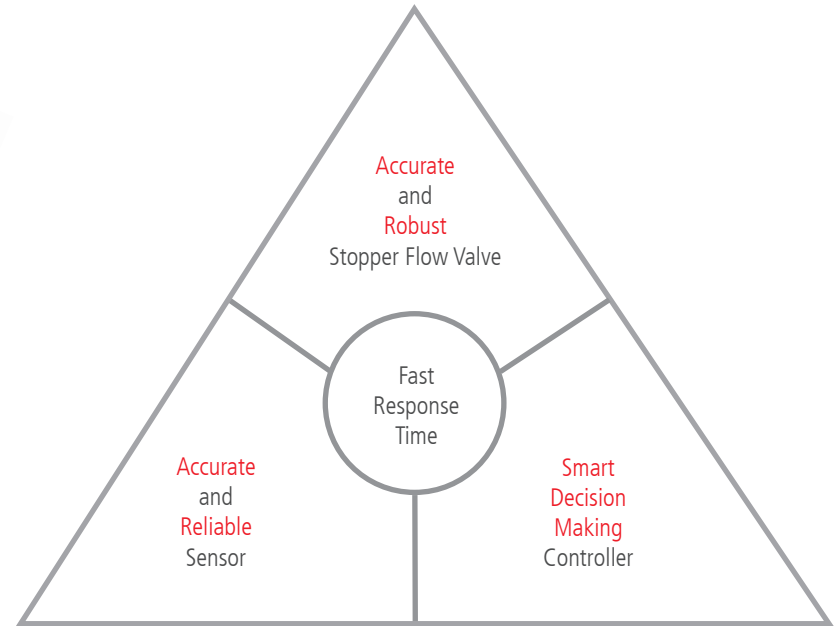
Automatic Mould Level Control
for Stopper-Rod Slab Casters



One Single Partner
One Coherent Full Loop
Unique Performance



Automatic Mould Level Control

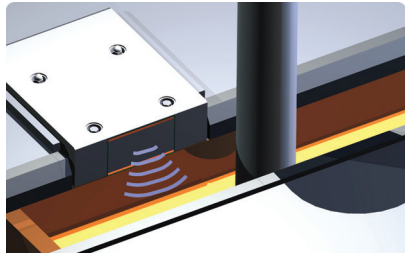


Full Loop Performance

AMLC-SR: top quality hardware **within** full loop approach

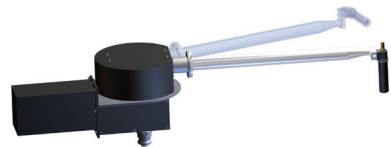
SENSOR: XLEV

Accurate and reliable eddy-current sensor



Avemis XLEV-L ledge sensor

- no interference with operation
- total drift compensation



Avemis XLEV-S suspended sensor

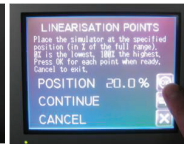
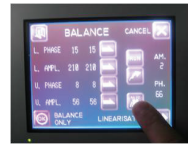
- handled manually or by manipulator
- easy installation, no mould modification
- head shape customized to caster needs

User-friendly calibration

- No oscilloscope required
- No laptop required

Phase 1:
Auto balance

Phase 2:
Linearization



CONTROLLER: UCN

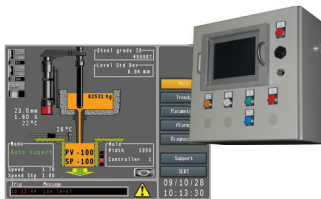
Self-adaptive control strategy



PC for advanced control modules and data storage and analysis



PLC in electric room for ladder logic and most control modules



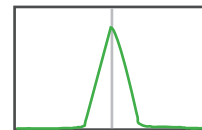
Operator pulpit aside strand with screen for feedback information

On-line analysis:

Automatically switch to the relevant control strategy



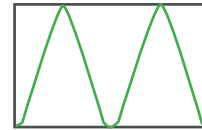
- Steady state control (no significant perturbation)



- Sudden perturbation (unclogging, fast speed change, ...)



- Transient phase (Autostart, ladle change, SEN change, mould width change, ...)



- Periodical perturbation (Waves, bulging, ...)
- Ability to manage perturbations with several frequencies occurring at same time

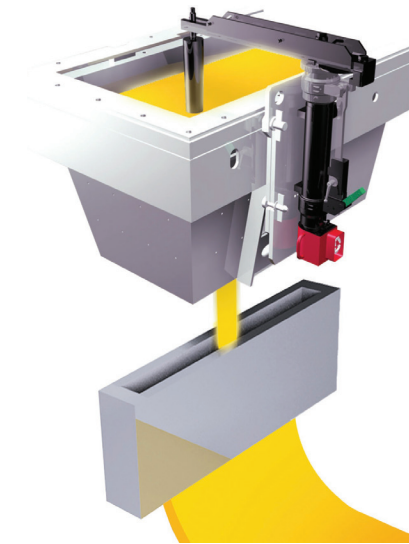
Enables optimized caster utilization for increased steel output

STOPPER FLOW VALVE: M-Type

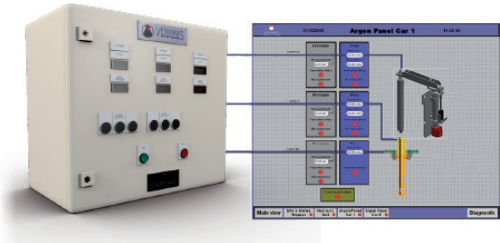
Consistent and fast reaction

100% electric stopper valve

- Ultra fast response time
- Precise stopper positioning
- Performance consistency all year long
- Reduced downtime
- No oil burning risk



Optional and Ancillary Equipment

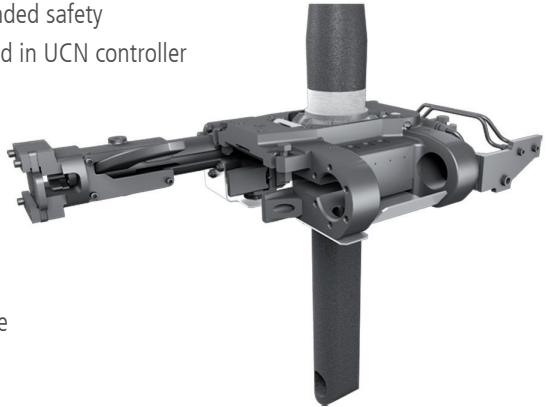


Argon injection system

- Multi-channel in one enclosure
- True mass-flow controllers: no need for pressure/temperature compensation
- PLC controlled, remote control and monitoring
- Full traceability into AMLC data storage unit

SEM3085 Tube Changer

- For long sequences on slab casters
- Optimised contact pressure for improved tightness
- Double stroke emergency shutoff for extended safety
- Automatic tube change function embedded in UCN controller
- Robot ready design
- Pneumatic version available (TCD3000)



Chop Gate Kit for Tube Changer

- Conversion of a SEM3085 into a chop gate for occasional use with SEN
- One man operation
- Safe shut-off
- Full proof operation

How to get the best Performance?

A chain is only as strong as its weakest link...

A coherent FULL LOOP SOLUTION, based on top quality components, is essential to achieve the best performance.

The whole project management and fine tuning by a SINGLE EXPERT PARTNER is just as essential to magnify the performance of the loop.

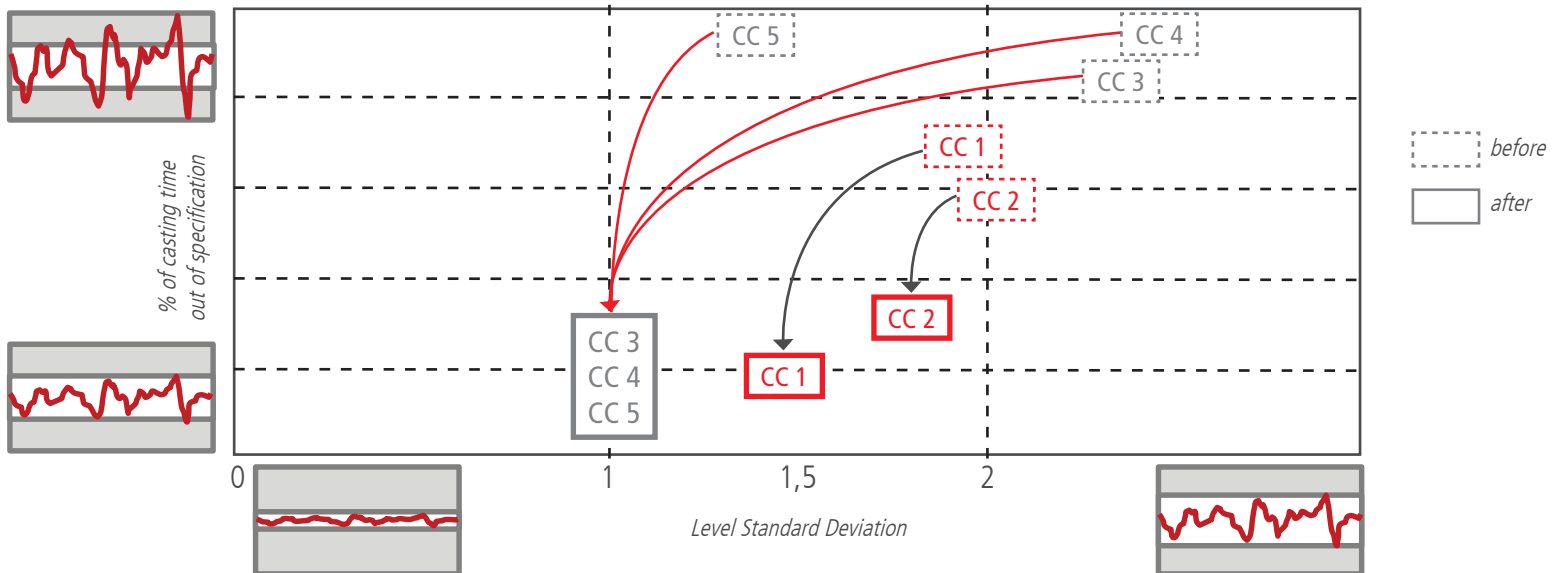


Best value through complete AMLC-SR approach

Quality indicators of the 5 casters below are shown before and after upgrade.

CC 3-4-5 full AMLC-SR

CC 1-2 multiple suppliers approach





For more information on this product and on our complete package of solutions please contact our local service center:

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