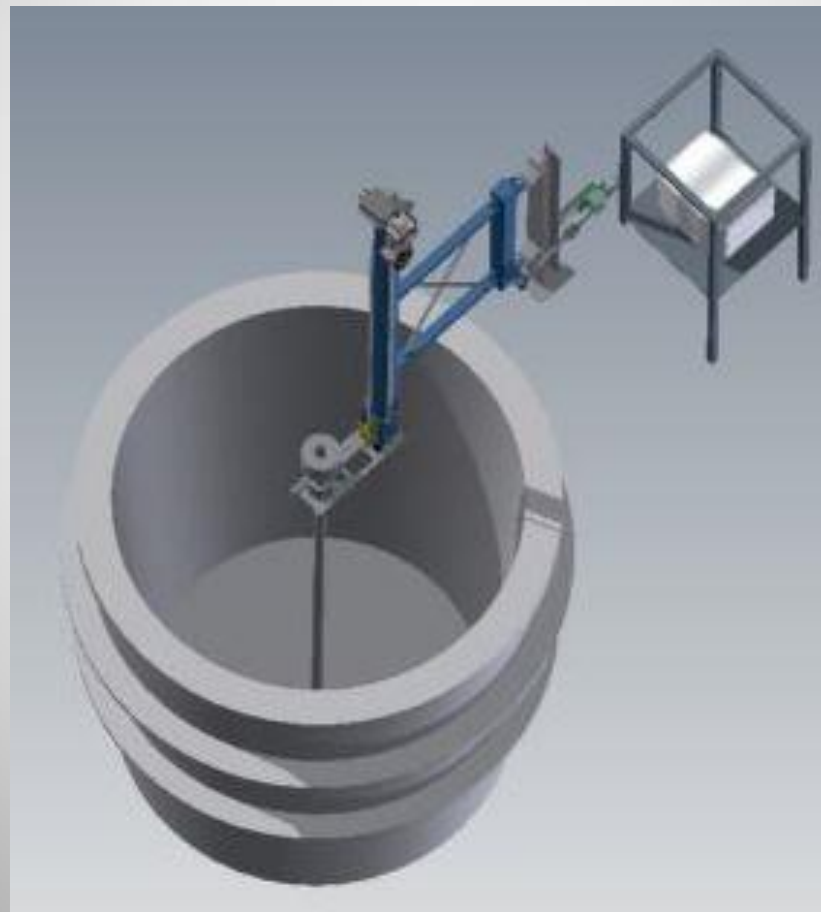


Ladle well filling/ setting system for slide gate systems for bigger casting ladles

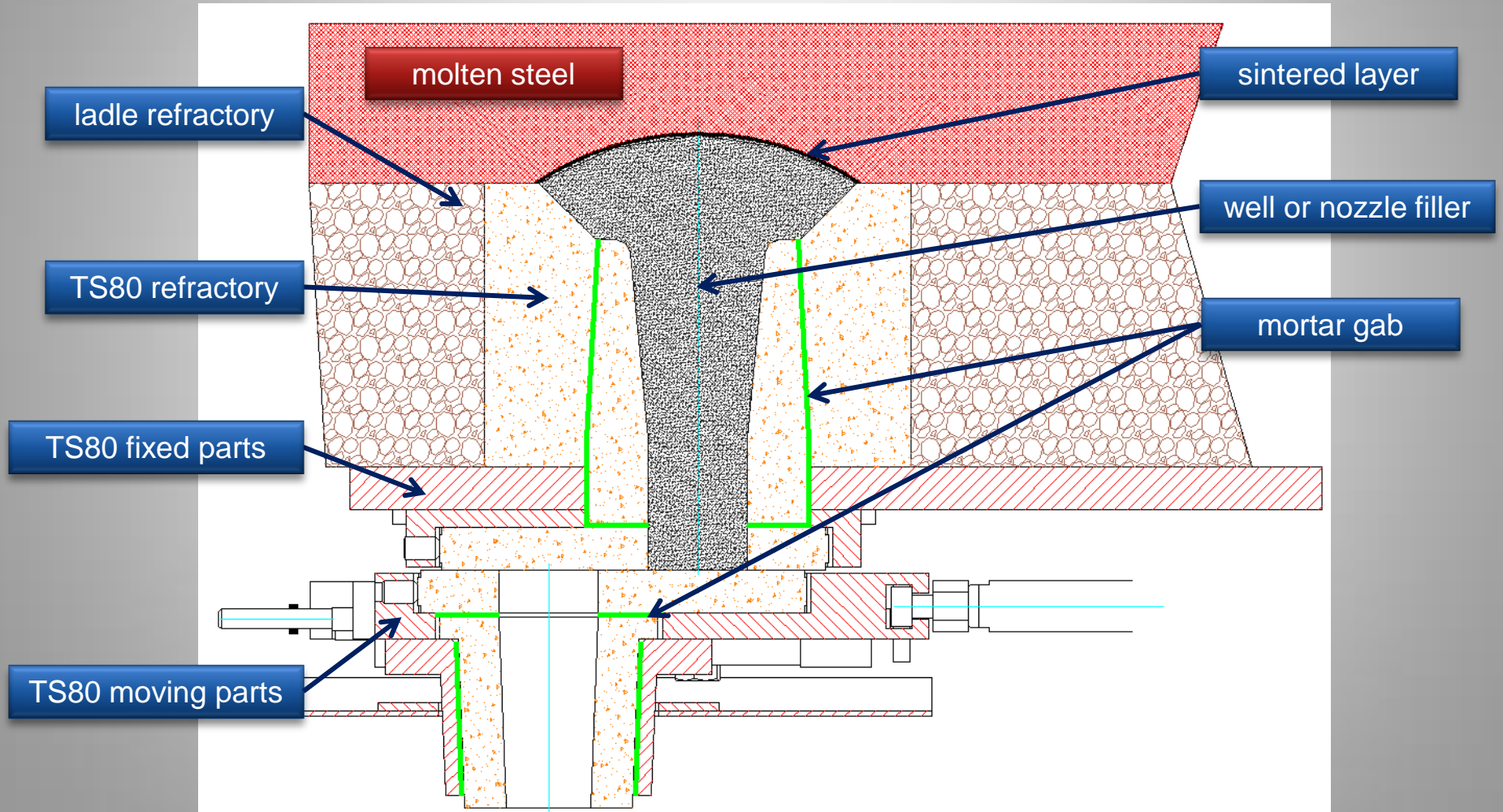


Well filler – general aspects/ requirements

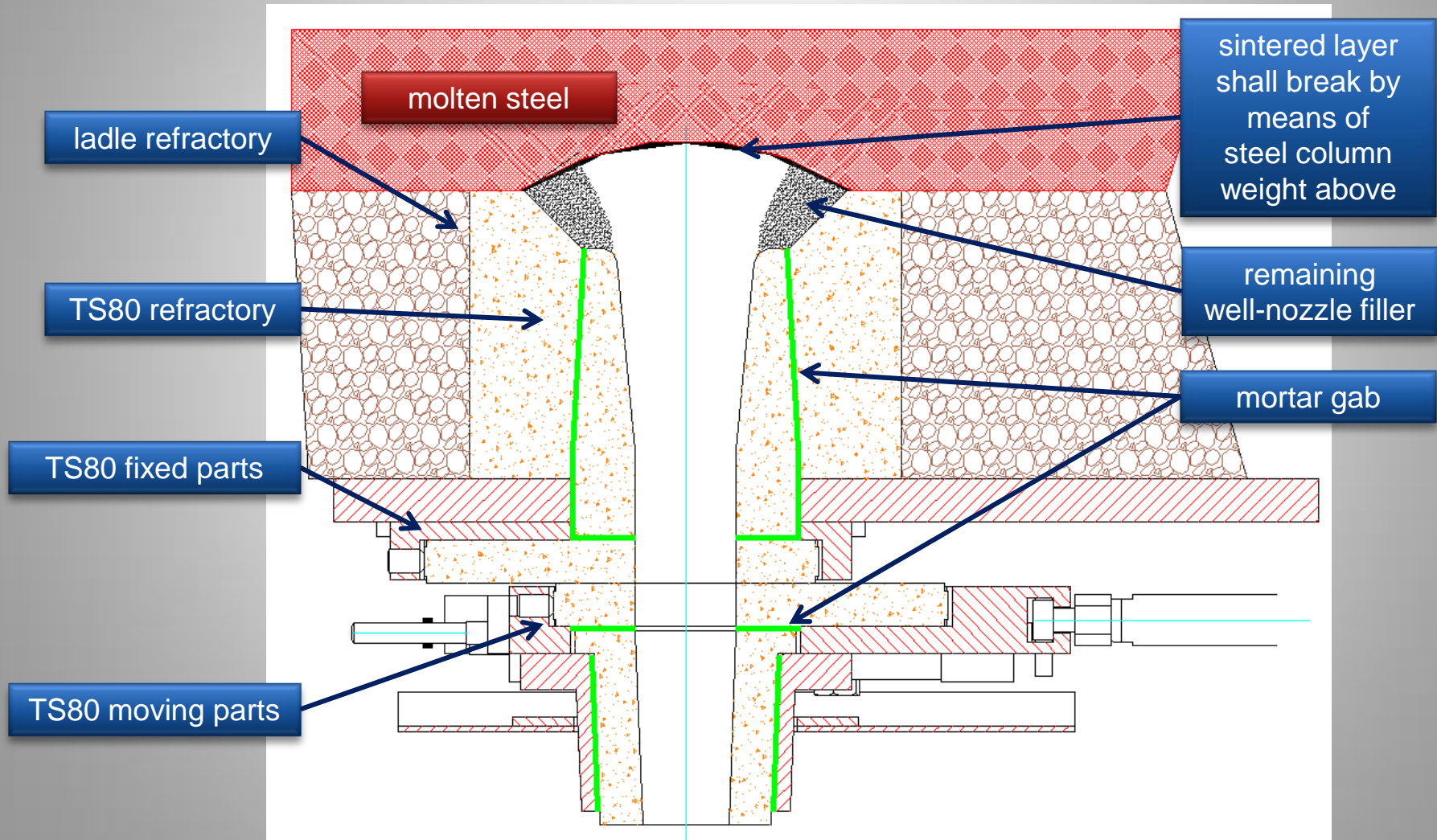
well - nozzle filler...

- is necessary to keep the casting hole free during and after tapping of the melt
- shall built a “sintered layer” at the top of filler mass during tapping, in order to avoid penetration of steel into deeper layers
- shall flow out of the casting hole easily after opening of the slide gate
- must allow breaking of the “sintered layer” by the melt as soon as the filler has flowed out

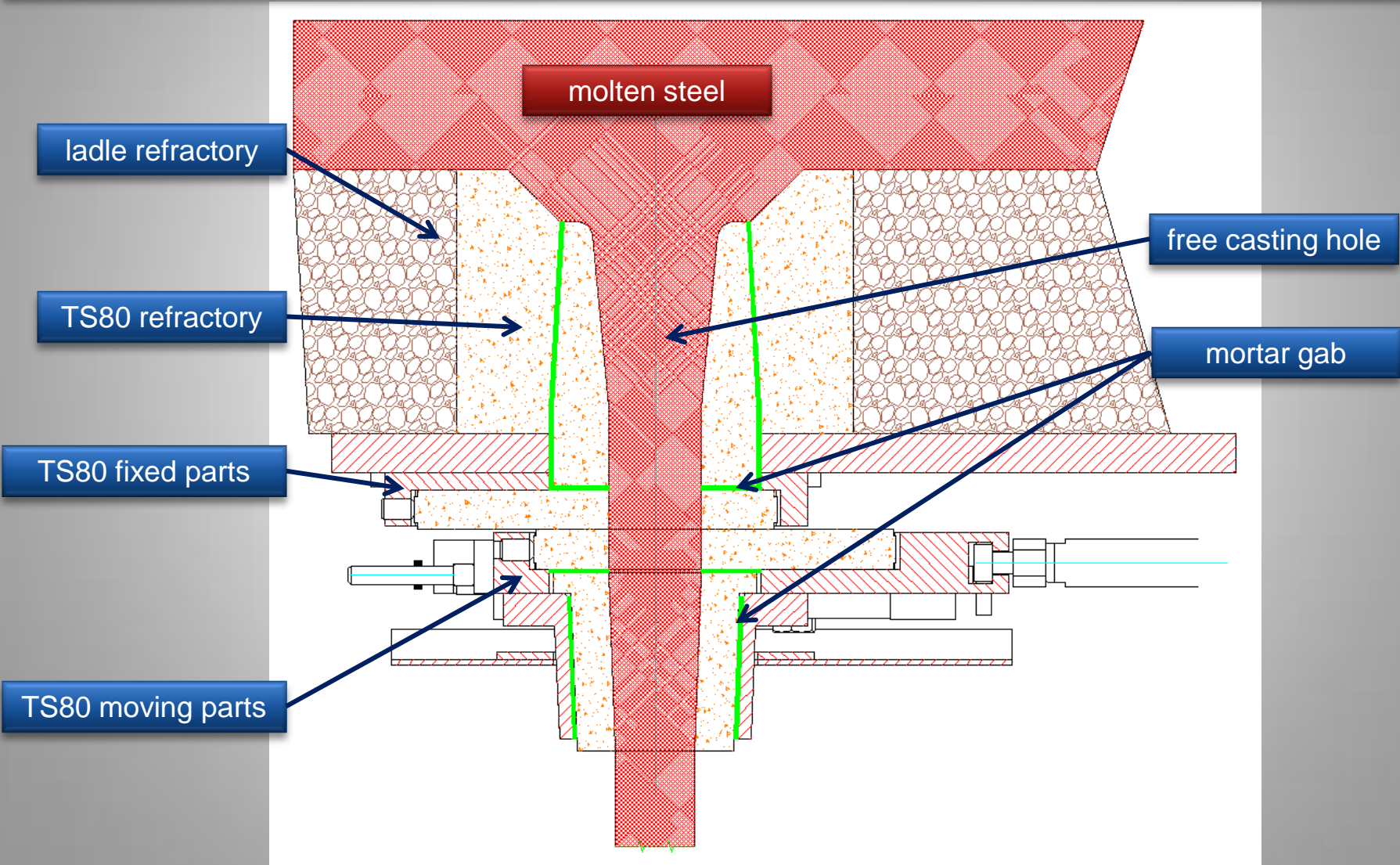
Well filler – basic situation at slide gate system TS80 – slide gate closed



Well filler – basic situation at slide gate system TS80 – slide gate open (“breaking” phase)




Well filler – basic situation at slide gate system TS80 – open slide gate (casting phase)



Well filler –influences

well – nozzle filler...

- must have the right composition
(% of raw materials, grain size and type, etc.)
- must have the right content of moisture
- must be set properly and with a reproducible accuracy
(e.g. with  “well filler setting systems”)
- shall aim in combination with a proper setting and a proper preparation of casting hole for a opening rate of 100%

use of a well filler setting system = reproducible quality

- Determination of necessary well filler amount by measuring of ladle bottom level (option: laser system)
- Dosing of well filler at a (e.g.) bigbag station by level indication or scale (option) into a filler box
- Exact positioning of the filler box above the casting hole by exact mechanical guiding of the ladle (option: laser system)
- Documentation of casting hole before and after filler setting by a camera
- Smooth setting of filler by adjusted opening speed of the valve and helix installations inside the chute. Almost no demixing of components is expected.



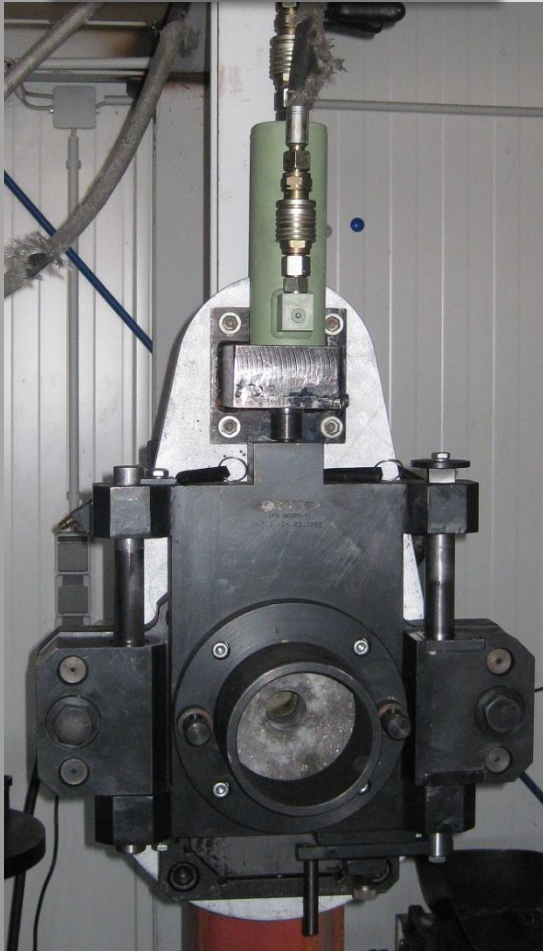
Typical bigbag station



Docking at bigbag station

Slide gate system TS80

TS80 without heat shield



TS80 with standard heat shield



TS80 with slide gate shrouding box





Daher, gut beraten mit Erfahrung in ...

- Anlagenbau Sekundärmetallurgie (Neubau, Umbau, Modernisierung)
- Machbarkeitsstudien Sekundärmetallurgie
- Vakuum Schleusen für Legierungsmaterialien
- Drahteinspulsysteme für Füll- und Volldrähte
- Gießpfannenschieber für Stahlwerke und Gießereien
- Temperatur- und Probenahmesysteme
- Projektmanagement
- Projektierung und Layouts für VD/ VOD/ CAS/ CAS-OB/ LTS/ VCP und mehr



So, well advised with experience in ...

- Plant construction secondary metallurgy (new construction, conversion, modernization)
- Feasibility studies for secondary metallurgy
- Vacuum hopper systems for alloying materials
- Wire injection systems
- Ladle slide gates for steel works and foundries
- Temperature measuring and sampling systems
- Project management
- Project planning and layouting for VD/ VOD/ CAS/ CAS-OB/ LTS/ VCP and more



Por lo tanto, bien asesorado en ...

- Instalaciones de metalurgia secundaria (nueva construcción, conversión, modernización)
- Estudios de viabilidad de metalurgia secundaria
- Instalaciones de tolva vacío para ferroaleación
- Sistemas alambre inyección
- Valvulas de cucharas para las plantas de acero y fundiciones
- Sistemas medición de temperatura y toma de muestras
- Administración de Proyectos
- Proyecto y layouting para VD/ VOD/ CAS/ CAS-OB/ LTS/ VCP y mas