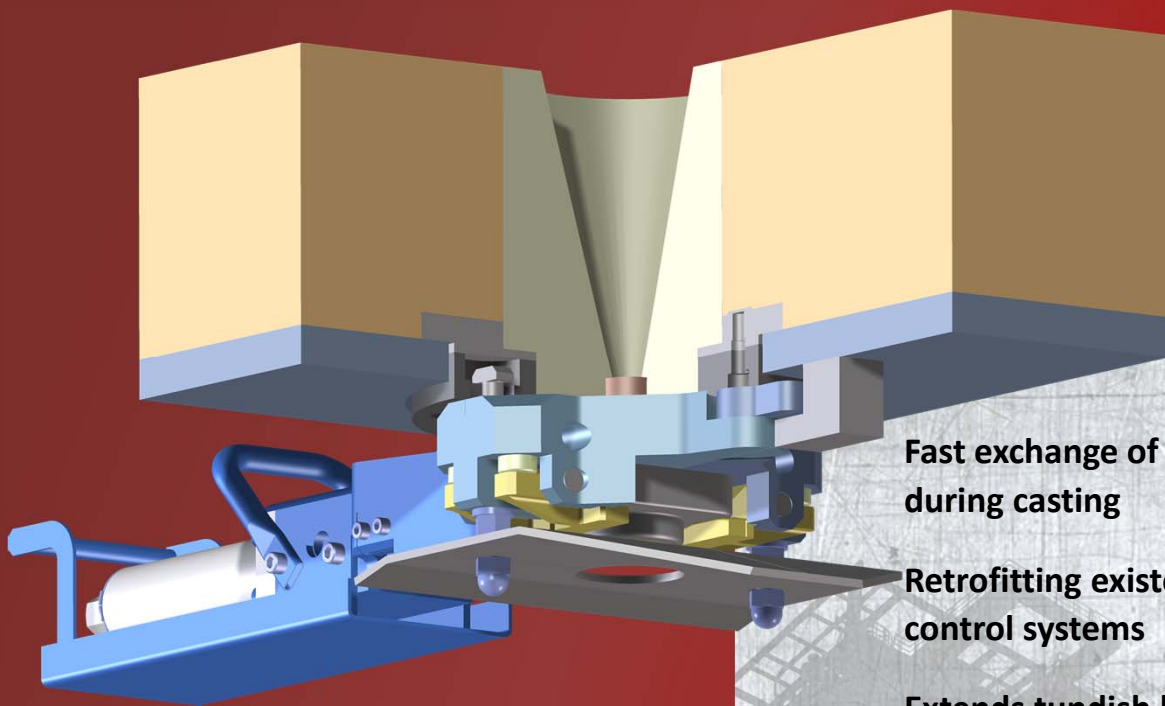




SHEFFIELD HI-TECH REFRACTORIES
Germany GmbH

OPEN-STREAM CASTING NC18 – NOZZLE CHANGER

Increases productivity, flexibility and operational safety.
For new installations and replacement of existent systems.
The NC18 is the improved successor model of the NC14.



Fast exchange of Metering Nozzle during casting

Retrofitting existent installations and control systems

Extends tundish life and caster productivity

Instant & safe shut-off of steel flow when required

Increases production yield & operational safety

Plate side loader system

Flexibility at using upper plate design

Flexibility at using springs (gas or spiral)

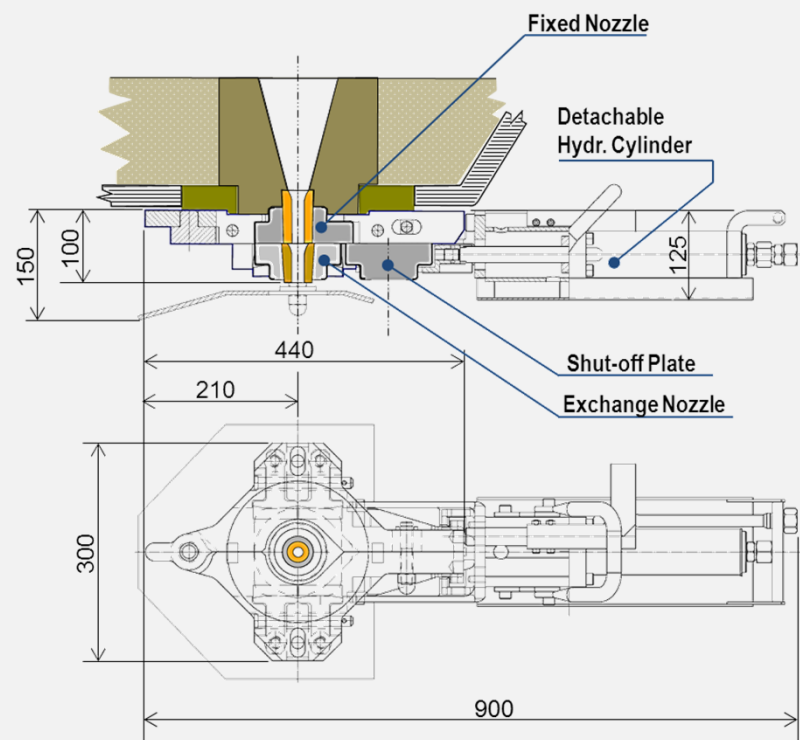
Design Concept

- Sturdy and compact design
- Low weight unit does not need handling means
- Smooth and fast nozzle exchange (< 0.3 sec)
- 2 x 2 clamping fingers loaded by thermodynamic gas or spiral spring elements
- Plate side loader system
- Directly fitting to most tundishes of existent nozzle changers and/or easy adaptation
- Stand-by Blank plate for instant and safe termination of casting
- Suitable for existent hydraulic control systems
- Low maintenance and spare parts requirements



Technical Data

– Casting bore diameter (max)	23	mm
– Unit weight with refractories	20.5	kg
– Casting rate @ 1.0 m tundish level to top of bottom lining	0.9	t/min
– Cylinder stroke	130	mm
– Hydraulic pressure	12 - 16	MPa



Refractory Components

- Homogeneous Refractory design of Fixed Nozzle to reduce stress peaks
- High quality zirconia inserts to achieve casting times per tundish of 50 hours plus
- Economical design of nozzle assemblies to achieve low cost/ton
- Special zirconia material to avoid splashing and droplet build-up at the Exchange Nozzle
- No patent protection on refractories
- Special solutions for non standard requirements (i.e. protected casting) available upon request

