

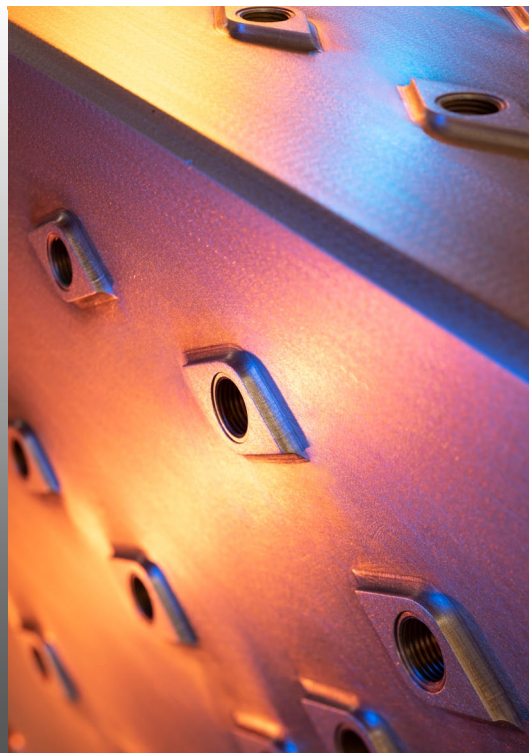
ATM ADVANCED TUBE MOULD

CHALLENGE

- Eliminate corner gaps
- Improve uniformity of mould cooling and dimensional stability

SOLUTION

- Replace traditional four-piece bloom mould plate with one-piece mould tube design
- Thin-walled copper tube design and uniform water gap cooling design
- Low stress AFM® moulding technology (KME patent)



APPLICATION

- All bloom moulds

ADVANTAGES

- Optimized cooling conditions due to water gap-type cooling and special designed back-up plates avoiding an overcooling of the corner area.
- Homogeneous temperature profile of bloom
- Increased average heat transfer rate
- Improved strand quality
- Repair by inside copper coating and mechanical machining with keeping constant Cu wall thickness above cooling water
- Repair 4 – 5 times possible
- Longer lifetime due to reduced thermal stress with average lifetime of 25,000 – 40,000 t between repairs
- Reduced operation costs due to lower maintenance costs