



CUNOVA

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SPECIAL PRODUCTS
& SOLUTIONS



ATM
Advanced Mould Technology



MELTING & CASTING
TECHNOLOGIES

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® mounting technology (cunova 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 † between repairs
- Reduced operation costs due to lower maintenance costs

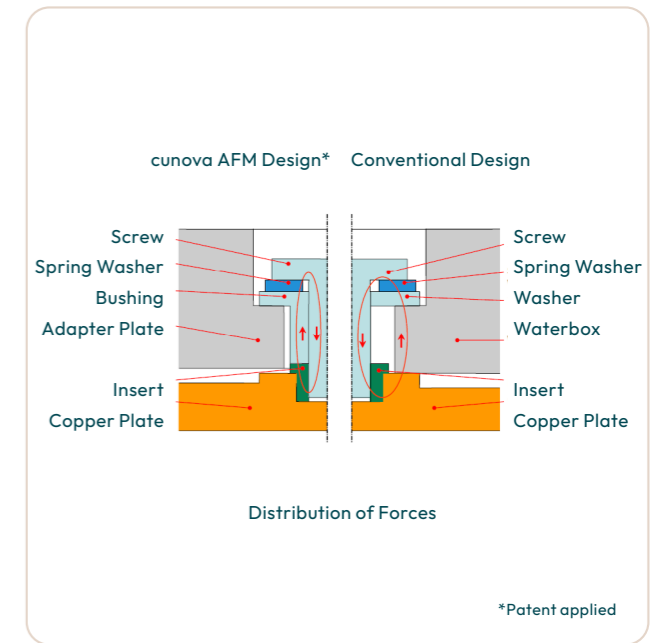
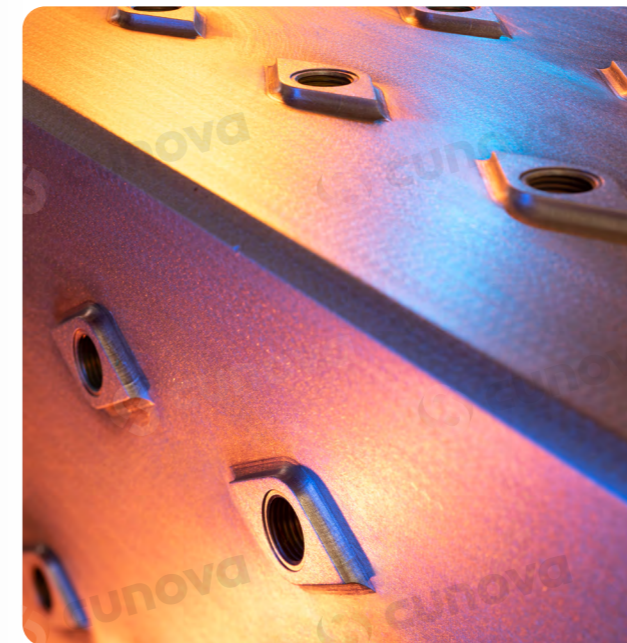


ATM – Advanced Tube Mould

Easy and low-cost revamp from mould plate construction to mould tube construction, because the existing steel frame and waterboxes of the mould plate construction will still be used.

Back-up plates one time investment; can be endlessly used due to special copper alloy.

Low stress AFM® mounting technology (cunova patent) of copper tube and back-up plate allowing the thermal expansion of the copper mould tube





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