



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

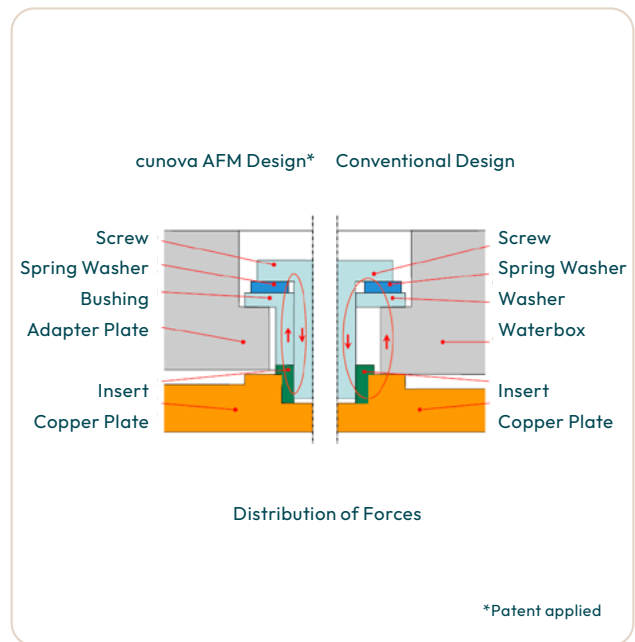
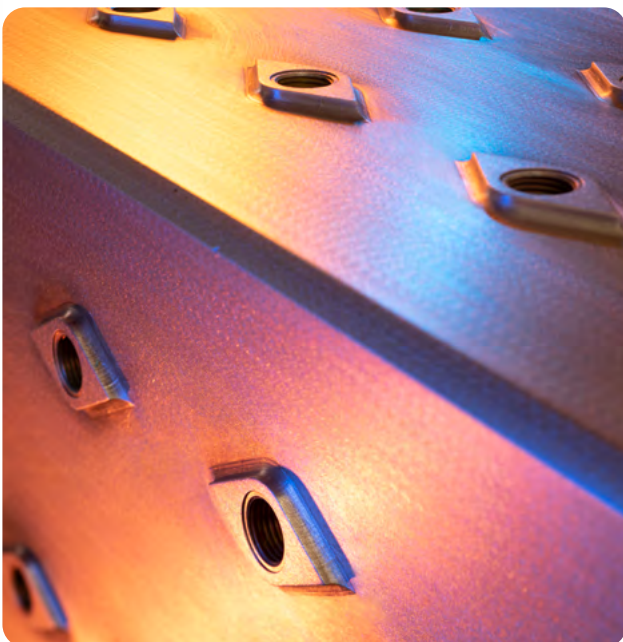


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Easy and low-cost revamp from mould plate construction to mould tube construction, because the existing steel frame and waterboxes of the mould plate construction will still be used.

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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**Further information on
ATM Advanced Tube Mould:**

T +49 541 321-3218
mouldplates@kunova.com
www.kunova.com

kunova GmbH
Klosterstrasse 29
49074 Osnabrück
Germany

kunova Service Centers:



kunova Mould Mexico S.A. de C.V.
T: +51 818 308 6810
M: luis.iracheta@kunova.mx



kunova Service USA LLC
T: +1 814 827 7717
M: sales@kunova.us



kunova Service India Pvt. Ltd.
T: +91 966 331 4751
M: prashant@kunova.in



kunova Kalip Servis Sanayi ve Tic. A.Ş.
T: +90 212 244 7460
M: cem.oz@kmeikalip.com



KME Magma Service
M: info@kunova.com



kunova Service Spain, S.A.
T: +34 946 360 128
M: info@kunova.es



Dalian Dashan Surface Machinery Co., Ltd.
M: info@kunova.com

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