



**CUNOVA**

FORMERLY KME  
SPECIAL PRODUCTS  
& SOLUTIONS



**ABBM**  
Advanced Beam Blank Mould Tube



MELTING & CASTING  
TECHNOLOGIES

# ABBM – Advanced Beam Blank Mould Tube

## Challenge

- Improve Beam Blank quality
- Eliminate corner gaps and improve uniformity of mould cooling

## 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 Beam Blank moulds

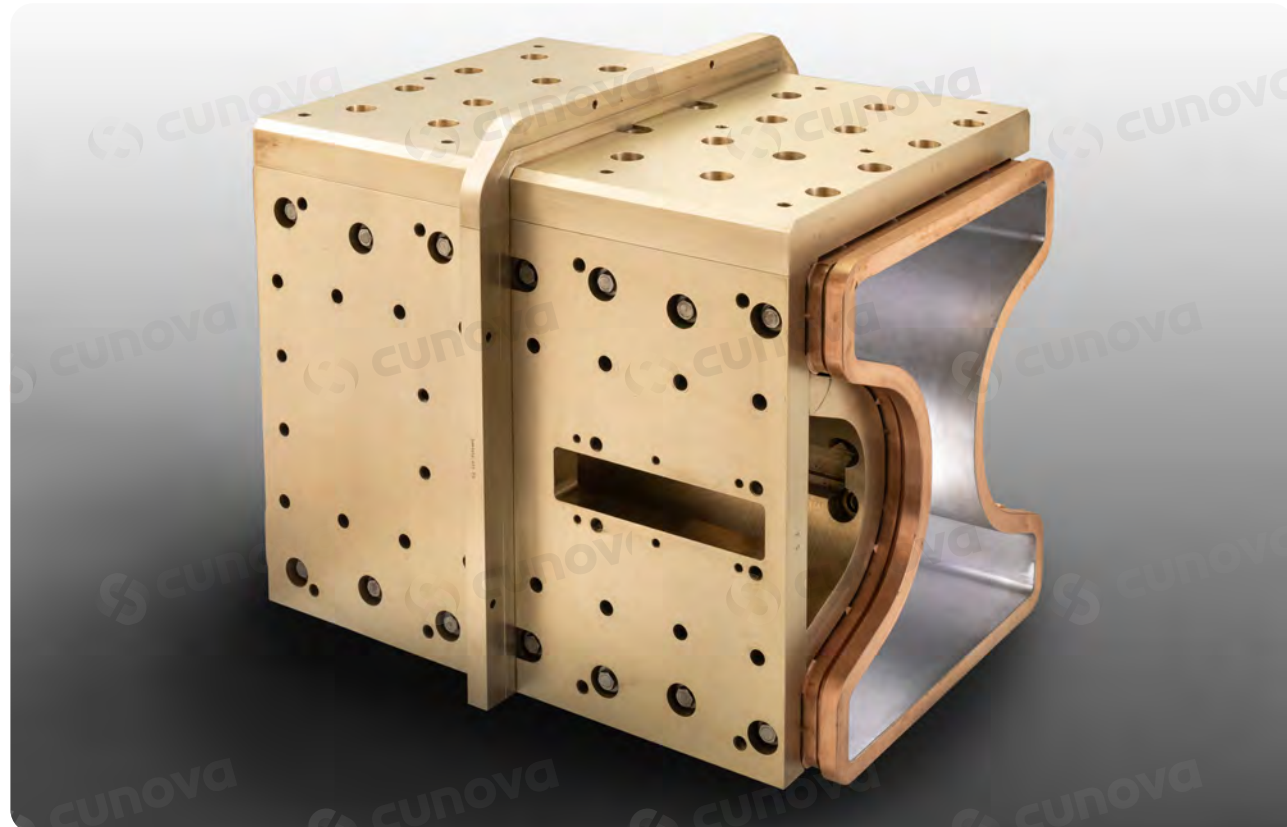
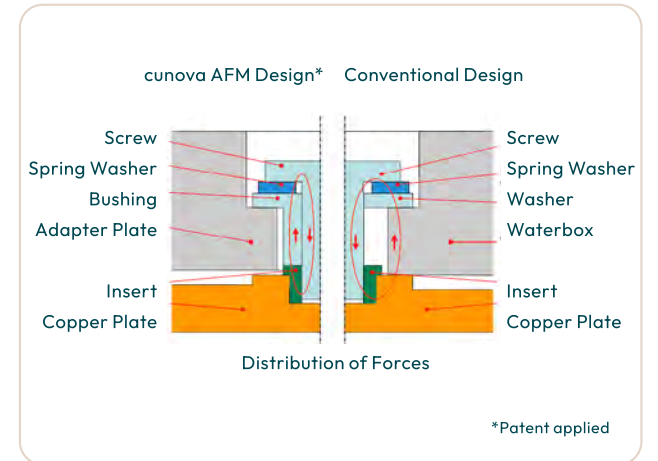
## Advantages

- 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
- Reduced operation costs due to lower maintenance costs

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.





FORMERLY KME  
SPECIAL PRODUCTS  
& SOLUTIONS

**Further information on ABBM  
Advanced Beam Blank Mould Tube:**

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

kunova GmbH  
Klosterstrasse 29  
49074 Osnabrück  
Germany

**kunova Service Center:**



kunova GmbH

Tel. +49 541 321 3218 | M: info@kunova.com



kunova Service USA LLC

T: +1 814 827 7717 | M: sales@kunova.us



M: service@kunova.com



KME Magma Service

M: info@kunova.com



kunova Kalip Servis Sanayi ve Tic. A. Ş.

T: +90 212 244 7460 | M: cem.oz@kunova.com.tr



kunova Service India Pvt. Ltd.

T: +91 966 331 4751 | M: prashant@kunova.in



kunova Mould Mexico S.A. de C.V.

T: +51 818 308 6810 | M: luis.iracheta@kunova.mx



kunova Service Spain S.A.

T: +34 946 360 128 | M: info@kunova.es

® = registered trademark of kunova GmbH

All changes reserved. MC0100523.

Owing to limitations in printing technology, the colours reproduced in this brochure should be regarded as approximate equivalents to the colours described.