

# Casting technology for architectural applications

William Cook is an acknowledged world leader in structural steel castings for prestige construction projects.

William Cook works with architects and consulting engineers to design and develop aesthetically attractive and structurally sound cast components. William Cook has worked on many world-famous London landmarks, including Heathrow Terminal 5, Wimbledon Centre Court and the Thames Millennium Bridge.

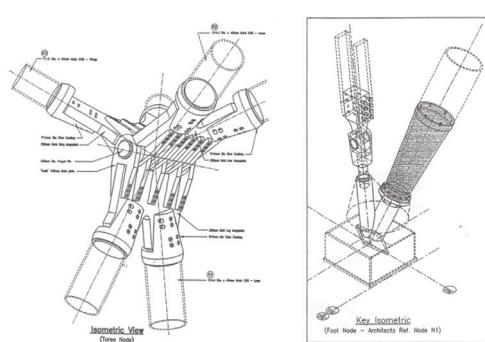
## CABLE CLAMPS FOR WHITE HART LANE

William Cook worked with consulting engineers Schaich Bergermann Partner on the new White Hart Lane stadium for Tottenham Hotspur Football Club.

54 high-integrity castings, each weighing 1.8 tonnes, support the roof of the 62,000-seat arena in north London.

## ACCREDITATIONS AND APPROVALS

- ✓ EN10340 Construction Product Regulations
- ✓ ISO14001
- ✓ OHSAS 18001
- ✓ ISO9001



#### TORSO NODES FOR HEATHROW TERMINAL 5

In the early 1990s, William Cook worked with architects Foster and Partners and consulting engineers Ove Arup to pioneer the use of cast steel components in the construction of Stansted Airport.

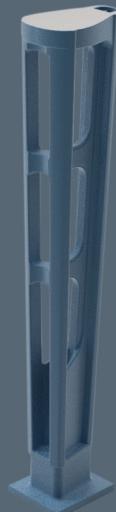
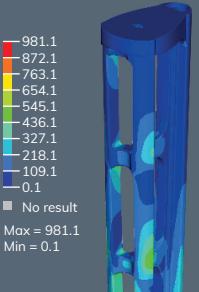
A decade later, William Cook worked alongside architects Rogers Stirk Harbour and Partners to design and manufacture the torso nodes and feet for Heathrow Terminal 5. The 264 high-integrity castings, weighing several tonnes each, demonstrate the structural and aesthetic advantages of steel castings in architectural applications.

#### VIADUCT SUPPORTS FOR PARIS METRO LINE 11

William Cook was approached by architect Marc Mimram and Paris transport operator RATP to design and develop a cast steel support for an elevated metro station.

William Cook used CAD and Finite Element Analysis to validate the strength of the design, before carrying out MAGMA fill and solidification simulation to be sure of a sound casting. The two prototypes, each 6m high and 12 tonnes in weight, are among the largest castings ever poured at William Cook's Sheffield plant.

Contour Plot  
Element Stresses (2D & 3D)(vonMises)  
Analysis system  
Simple Average



**William Cook Cast Products:** +44 (0)114 273 1252

**Email:** castproducts@william-cook.co.uk

**Web:** [www.william-cook.co.uk](http://www.william-cook.co.uk)

**Address:** Parkway Avenue, Sheffield, s9 4WA, England

