

## What is casting steel node?



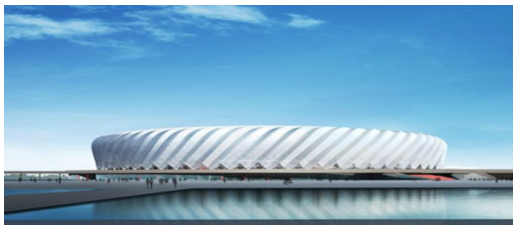
Now, Cast steel node is widely used in large span space pipe truss of steel structure due to its excellent properties of easy machining and complex various construction forms. It owns the unique advantage, especially in the construction of many complex joint parts. Nowadays, cast node is widely applied in the railway stations, high-speed railway stations, airport buildings and stadiums construction.

Casting steel node is one of the first applications of high integrity castings in offshore structures. Its basic ideas have been created more than 25 years ago.

### **Casting steel node advantage:**

1. Cast node is made by our particular heat treatment technology which can make its structure optimized and improve its hardness and enhance its wear-proof and anti-impacting properties.
2. The intersecting body where steel pipes get together is molded directly, it makes the cast node bear more reasonable load, the overall cast node becomes more stable to overcome the harmful impact on overall cast node due to the strong stress caused by a large number of centralized weld.

## What is the application of casting steel node?



long span pipe truss steel structure, Nowadays cast steel nodes are found in railway station, highway station, airport, stadium and huge buildings.

Our main material for casting steel node is similar to followings:

| Standard Specifications for Cast Steel |                   |                 |
|--|-------------------|-----------------|
| Country                                | Standard          | Grade           |
| United Kingdom                         | 聽 BS 970-1        | 080 A20/080 A22 |
| USA                                    | ASTM A 29/A29M-04 | 1019/1022       |
| Germany                                | DIN 17462         | 20Mn5           |

**The casting process of casting steel node:**



**Quality assurance of Our casting steel node:**

The fabrication route is governed by the provisions of the implemented Quality System ISO 9001: 2000. The standard documentation ensures the full traceability of every process step:

- Manufacturer test certificates according to DIN EN 10.204 § 3.1 including chemical composition, mechanical properties and non-destructive examination;

- Dimensional check supported with a “as-built” sketch;
- Record of the heat treatment chart;



## **Our company:**

Our company has strong production and processing capacity, advanced facilities and fully equipment. It has  $\phi 8\text{m}$  heavy double-column vertical lathe,  $\phi 6.3\text{ m}$  vertical lathe and  $\phi 8\text{m}$  gear hobbing machine imported from Russian, Czech T6920 landing boring-milling machine and domestic TX220 floor type boring-milling machine, 6625Y (2.5m  $\times$  8.0m) gantry milling machine imported from Russia, domestic 120  $\times$  3000 heavy CNC Universal Machine, and other processing equipment.

Our company employs excellent graduates from China top universities and experienced top managers and technical experts. We can provide customers turnkey solutions and best service from rough casting to finished products.

The main products are large steel casting under 120t per piece and steel ingot below 30t per piece, such as

Building materials machinery: ball mill hollow shaft, ring gear, sliding track, vertical mill grinding table, grinding roller, kiln supporting roller, kiln tyre.

Metallurgy, ceramics industry: rack, slag pot.

Shipbuilding parts, auto parts, cabinet housing, hammer, drill bits, etc.

