

发光的不锈钢珊瑚树的制作

WEMEDEC 是中国一家专门制作金属雕塑、金属凉亭、定制金属结构的公司，拥有资深的深化设计师、结构设计师、3D 建模师，15 年制作经验的雕塑和定制化团队，以及熟练的业务团队和跟单、售后人员。上个星期，WEMEDEC 完成了一个不锈钢材质的珊瑚树雕塑项目，现在分享项目经验。

一、项目介绍

该金属珊瑚树是定制产品，材质是 304 不锈钢，表面处理是喷漆，适用于户外长久的使用。该景观雕塑带有 LED 灯光设计，顶部的花瓣部门是镂空处理，可以透漏出美丽的灯光，让夜景特别吸引游客驻足。

该珊瑚树高度是 4 米，当然，高度可以根据客户的要求来定制。

该珊瑚树只做完后，被运输到客户所在城市的商业广场，在那里被安装在了公园旁边。

二、制作过程

- 第一步，整体 3D 建模，勾勒结构和图形。
- 第二步，打印 3D 模型，拆解金属面，进行手动锻打。
- 第三步，对花朵部分进行镂空处理和焊接，做出花瓣轮廓，做成完整的花艺造型。
- 第四步，打磨树干，去除毛刺。
- 第五步，安装花瓣部分到树干上，进行焊接和抛光，并调试灯光。进行抛光、多层喷漆（氟碳漆）处理。

三、WEMEDEC 在制作不同的金属艺术装置和雕塑，也在从中国国内市场向国际市场转变，希望跟全球的建筑公司、设计公司、开发商公司、酒店、别墅群等客户群进行深入的合作。

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Case Study 102: Fabrication of the Stainless Steel Light-coral Tree sculpture by wemedec company

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Case Study: Fabrication of a Glowing Stainless Steel - Coral Tree - Discover how WEMEDEC designed and fabricated a stunning 4-meter glowing stainless steel coral tree sculpture for a commercial plaza — from 3D modeling to on-site installation.

Project Overview

WEMEDEC is a leading metal fabrication company based in China, specializing in custom metal sculptures, metal pergolas and canopies, and bespoke metal structures. With a team of senior detail designers, structural engineers, 3D modelers, and craftsmen with over 15 years of fabrication experience, WEMEDEC delivers high-quality metal art solutions worldwide. The company also boasts a skilled business development team and dedicated after-sales support to ensure seamless project execution.

Last week, WEMEDEC successfully completed a custom stainless steel coral tree sculpture project. Below, we share a detailed case study highlighting the design, fabrication process, and key takeaways.

1. Project Introduction

The custom metal **coral tree sculpture** was crafted from **304 stainless steel**, finished with a durable spray-paint coating suitable for long-term outdoor use. This landscape sculpture features an integrated **LED lighting system**, with the top petal sections precision-cut with hollow patterns to allow light to shine through, creating a breathtaking nighttime display that captivates visitors.

Key specifications:

- **Material:** 304 stainless steel
- **Height:** 4 meters (customizable upon request)
- **Finish:** Multi-layer fluorocarbon spray paint
- **Lighting:** Integrated LED system
- **Application:** Outdoor commercial plaza

After fabrication, the sculpture was transported to the client's city and installed in a commercial plaza, positioned next to a public park to enhance the landscape and attract foot traffic.

2. Fabrication Process

The fabrication of the glowing stainless steel coral tree followed a meticulous step-by-step process:

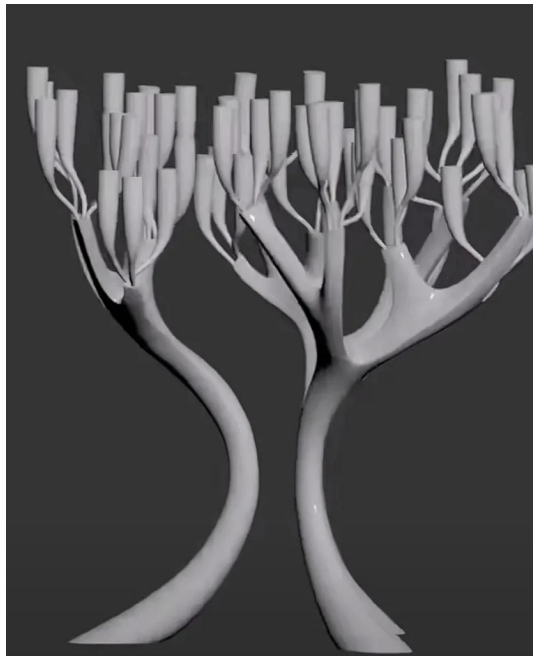
Step 1: Overall 3D modeling – The sculpture's structure and form were fully mapped using advanced 3D modeling software.

Step 2: 3D model printing and metal surface disassembly – A physical 3D model was printed, and the metal surfaces were segmented for manual hammer forging.

Step 3: Hollowing and welding of the petal sections – The flower petals were precision-cut with openwork patterns, welded, and shaped to create complete, elegant floral forms.

Step 4: Trunk grinding and deburring – The tree trunk was carefully ground to remove all rough edges and burrs.

Step 5: Petal installation, welding, polishing, and lighting testing – The finished petals were mounted onto the trunk, welded in place, polished to a smooth finish, and the LED lighting system was tested and fine-tuned. Finally, the entire sculpture received multi-layer fluorocarbon spray paint for superior weather resistance and long-lasting color.





3. From Local to Global: WEMEDEC's International Vision

WEMEDEC has extensive experience crafting a wide variety of custom metal art installations and sculptures. While the company has long served the Chinese domestic market, it is now actively expanding its footprint to the international stage.

WEMEDEC is eager to establish long-term, in-depth partnerships with **architectural firms, design studios, property developers, hotels, villa communities, and commercial project owners** around the world. Whether you need a striking centerpiece for a public space, a custom pergola for a resort, or a bespoke metal structure for any architectural project, WEMEDEC offers end-to-end solutions — from concept design to fabrication and installation.

Interested in collaborating or have a custom project in mind?

Contact WEMEDEC today to bring your metal art vision to life.

Keywords: stainless steel sculpture, glowing coral tree, metal art fabrication, custom LED sculpture, 304 stainless steel artwork, outdoor metal sculpture, WEMEDEC, commercial plaza sculpture, custom metal fabrication China

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