

# 飞机龙骨碳纤维超强度加强方管

产品名称	飞机龙骨碳纤维超强度加强方管
公司名称	上海固纤新材料科技有限公司
价格	1980.00/件
规格参数	产商:固纤 规格:全碳定制 产品用途:飞机航模龙骨加固梁加强
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## 产品详情

产商	固纤	规格	全碳 定制
产品用途	飞机 航模 龙骨 加固梁 加强		

飞机龙骨碳纤维超强度加强管

super-strength carbon fiber aircraft keel

方管的制作工艺 manufacturing process of square tube

碳纤维方管的生产工艺不同于圆管，要更为复杂。模压工艺最为常用。该工艺是对方管进行四面均衡加压，方管固化成型过程中受压力度大，因而能保持致密的内部结构和优异的力学性能。

the manufacturing process of carbon fiber square tube, which is different from the round tube, is more complex. moulding process is most commonly used. this process is to make a balanced pressure surround the square tube which has to be under a great pressure during the curing process, thus able to maintain a dense internal structure and excellent mechanical properties.

除了机器人悬臂梁之外，碳纤维方管亦可用作小型飞机或大型航模的龙骨或其它承压结构部件，以及医药设备上的承力翻板，等等。在保证强度的同时，也能显著降低管体重量。

in addition to the robot ' s cantilever beam, carbon fiber square tube can also be used as the aircraft ' s keel or other structural components under pressure, and bearing flap of medical devices, etc. in ensuring the strength, it can also significantly reduce the tube ' s weight.

工艺难点 ( difficulties of the process ) :

a.成型过程中方管各部位受压可能不同，容易导致壁厚不均或出现蜂孔

since the pressures on various parts of square tube may be different during the forming process, it ' s likely to result in uneven wall thickness or " bee holes " .

b.尤其对于高模量碳丝来说，90 ° 直角的存在使纤维铺设难度加大

especially for high modulus carbon filament, the existence of 90 ° angles makes the fiber lay-up design more difficult.

c.模具结构复杂，脱模过程中容易对方管造成损伤，从而影响其外观或性能

the mould ' s structure is complex, so it is easy to damage the square tube during the stripping process, which affects its appearance or performance.

针对性的解决方案 ( targeted solutions ) :

a.对模具结构的精心设计和多年制作经验的积累，有效杜绝了壁厚不均等情况的发生

excellent design for the mould ' s structure and years of production experience effectively prevent the occurrence of uneven wall thickness, etc.

b.根据不同模量碳纤维的性能，定制一整套科学的纤维铺设方案

depending on different performances of carbon fiber, we customize a scientific program of fiber laying-up design.

c.使用进口脱模剂和对脱模工艺的纯熟掌握，使产品外观和性能优异

the use of imported mould release and the skillful grasp of stripping process help the product obtain a pretty appearance and performance.