

COMPOSITE ROBOTIC ARM

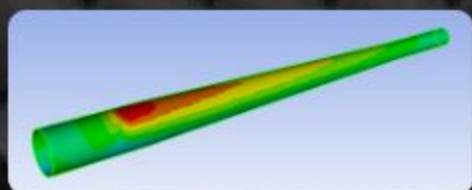
WINDING 
TECHNOLOGIES



With the state of the art filament winding technology and professional team, we are capable to manufacture composite end-of-the arm tool for industrial robots.

High stiffness to weight ratio and strong wear resistance provide significant alternative over conventional robotic arms with low deformation performance.

- > Outstanding Mechanical Properties
- > Lightweight Carbon Fiber Solution
- > Increased Production Speed and Efficiency
- > Superior Vibration Stability
- > Avoided Robot Damage in Crash



Filament Winding Technology

WINDING 
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Filament winding allows manufacturing composite parts accurately and rapidly.

Cutting-edge technology enables high carbon volume fraction ratios and special ply orientations to acquire desired properties.

Robotic arms in different dimensions can be manufactured.

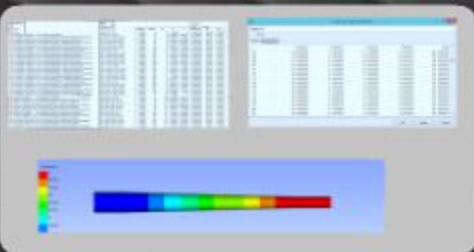


Payload Capacity

Compared to steel and aluminum, composite arm provides more than %50 lighter option.

Increased production speed by %20 and efficiency with a the flexible composite arm.

High stiffness of carbon fiber with proper manufacturing process allows excellent payload capacities.



Safety and Stability

In case of a crash, the carbon fiber robotic arm prevents damage caused to the press and robot by providing fragile behavior to high press impact.

In operation, dynamic movement becomes more stable and creates less vibration over conventional arms.

