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*Automated Assembly  
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# Fan Blade Laminate Robotic Drilling Cell



This robotic work cell manipulates several laminations of large metal fan blades to position them for drilling and deburring.

An operator assembles, clamps, and places stacks of laminations in a nest. The robot removes the laminations from the nest and positions them in the first of several drill and deburr positions. The laminations are clamped in position and backed up.

Power-feed drills extend from one side to drill the holes and from the other side to deburr the holes. Drills are servo-positioned for multiple models of laminations.

The robot then unloads the laminations to an off-load conveyor.