

AN EXAMPLE OF PERFORMANCE



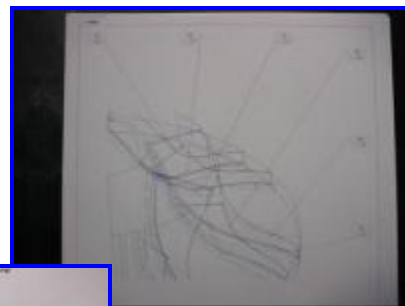
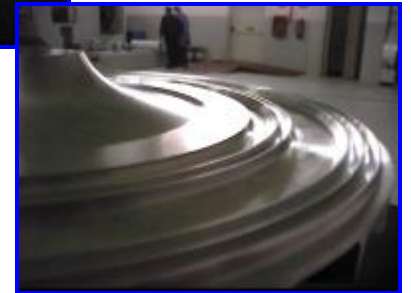
Component: impeller for turbo-compressor

Material: aeronautical Aluminum alloy

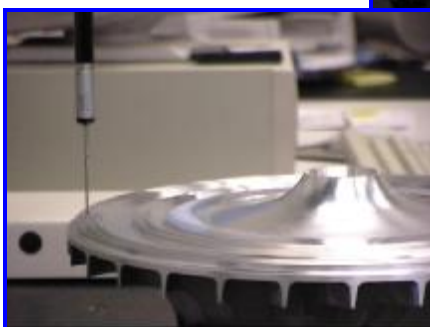
Dimensions: Ø 400 mm - h 150 mm

Features: 28 blades (14 main + 14 split) (thickness 0.9 mm, depth 70 mm)

**5 axes simultaneous machining
High Speed Milling**



Since its birth APR has been involved by a leading international aerospace customer for the DEVELOPMENT (through an approach of Concurrent Engineering for manufacturing) and PRODUCTION of a new family of impellers for centrifugal turbo-compressors.



Starting from the rough material, and creating the 5 axes tool path (through dedicated simulation softwares) APR has realised the first families of prototypes of such program very quickly. After machining and control through Computer Aided Quality Control softwares, APR, thanks to its collaboration with highly qualified partners, has produced hundreds of impellers up-to-now, including CNC shot peening, anodic oxydation, assembly of inserts.

