



PC Uprate

Product Description

By upgrading a PC turbine to a PG turbine that operates at 3,600 RPM instead of the normal 3,930 RPM of the PG, customers can benefit from some PG improvements.

Product Details

- Upgrade a PC turbine to a PG turbine:
 - Replace the PC turbine with a new PG turbine.
 - Convert an existing PC turbine into a PG turbine.
- Higher temperature and torque capabilities of the PG technology.
- Rad-Rad swirler technology:
 - Reduces the possibility of cracking occasionally found in the jet-rad primary swirler and the secondary swirler.
 - Eliminates the anti-rotation tabs.
 - Reduces thermal stresses and eliminates flash boiling inside of the venturi by changing to a dual skin design.
 - Reduces the thermal gradient across the Thermal Barrier Coating (TBC) and base metal, significantly improving coating life.
 - Significantly reduces wear between the nozzle tip bore and fuel nozzle tip by coating both with a T800 coating (cobalt- and chromium-molybdenum coating).
- Flexible range of operating modes:
 - Life Extension – modified PC control limits.
 - Max power – modified PG control limits.

Customer Benefits

- Higher power output
- Same NO_x and CO emissions
- Extended life
- Capability to reach full PG performance with gearbox upgrade

Applicable Units

LM6000	✓	LM2500	
LMS100		LM5000	
LM1600		TM2500	

Improvements of the LM6000 PG over the LM6000 PC

