

## Research and Development Activity of Turbomachinery in Samsung Techwin

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Samsung Techwin is the sole source of gas turbines in Korea. Since it was found in 1977, it has manufactured approximately 5000 units of gas turbines and 1000 units of turbo compressors, by which it has contributed to the independence of Korean national defenses and has lead Korea's machine industry to the next level. Based on its knowledge and technology on gas turbines accumulated via overhaul and licensed production business, Samsung Techwin has formed strategic alliances with some of the world's finest aircraft engine manufacturers, such as GE, P&W, Rolls Royce and so on. Supported by these relationships, Samsung is currently manufacturing and exporting main parts of aircraft engines.

Recently, Samsung Techwin has attempted a change from being just a simple engine part supplier to a functional module supplier via the RSP(Revenue Sharing Program) project, exporting T700 LPT modules, LM2500 power turbine modules, and Trent 900 combustor modules. It is also participating in the GENx project. Concentrating in the development of self-developed engines, Samsung Techwin has currently been able to invent, manufacture, and sell 5 types of New Centerline Engines, 5 types of Turbo Compressor platforms, and 48 types of air compressors, and is also making effort to develop advanced turbo products using differentiated advanced technologies to enhance the quality of life.

Henceforward, Samsung Techwin will successfully carry out its plans to develop KUH(Korea Utility Helicopter) engine and APU, taking a step further in becoming a leading company in the industry of turbo machinery.

Through this presentation, I would like to look at the past, present, and future of Samsung Techwin, the representative company in the field of turbo machinery of South Korea.

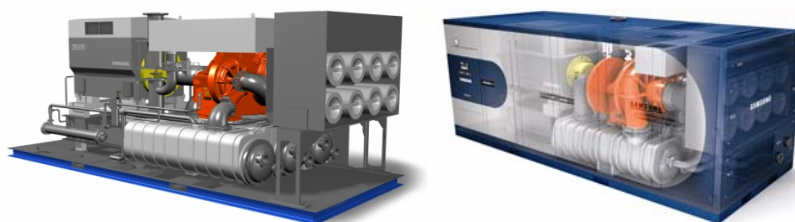


Fig. 1 One of turbo compressor models developed by Samsung Techwin



Fig. 2 3D models of APU and multipurpose helicopter