



The test bench can perform full function test on ATS of civil and military aircraft currently in operation in China, including B737, B747, B777, A320, A330, MA700, etc. The flywheel loading mode is adopted, or other loading modes can be selected according to the user's budget and technical requirements.

Its main parameters are as follows:

- The test bench can provide inertia load with rotational inertia $J=6.8 \text{ kg}\cdot\text{m}^2$;
- Air turbine starter inlet pressure (0 ~ 150 psi), accuracy $\pm 0.5\%$;
- Air turbine starter inlet air temperature, temperature measurement range of 0 ~ 300°C, accuracy $\pm 0.5\%$;
- The output speed of air turbine starter (time curve), that is, the time required to reach a specified speed, speed measurement accuracy $\pm 0.5\% \text{F.S}$, time resolution 0.01s;
- Output torque of air turbine starter (time curve), torque measurement accuracy $\pm 0.5\% \text{F.S}$;
- Vibration of air turbine starter, range 0 ~ 3 inch/s, accuracy $\pm 0.5\%$;
- The test bench requires reliable braking ability, can brake the inertia wheel;
- The test bench has the ability to disconnect load in operation;
- The inlet of the starter is equipped with a fast opening/closing control valve, which can quickly cut off the air source.