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ADF Science

RTSE – 100A

Turboshaft Engine

Training Set

Description

Trainees can learn basic components and systems in a gas turbine engine with RTSE-100A Runnable Turboshaft Engine training set. They can operate a gas turbine engine with the training set after learning on operational procedures. Training set includes all the systems that is on a gas turbine engine.

Features

- Power Output : 900-1200 BHP
- RPM
- Nh= 43,400 rpm
- NI=37,600 rpm
- Npt= 27,738 rpm
- LP Compressor
- 4 Stage Axial with Bleed Valve
- HP Compressor
- Centrifugal Impeller
- Overall Pressure Ratio: 12:1
- Air Mass Flow: 7.5 Lbs/Sec
- Combustion Chamber
- Reverse Flow Annular
- with 17 Vaporising
- 1 Stage Axial Burners
- Compressor Turbines
- Ignition
- Two Torch Igniters with
- High Energy Plugs
- Ignition SW
- Power Turbine



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2 Stage Axial with reduction
gearbox in the nose
Output shaft speed = 6164 rpm
Output shaft ratio = 4.5 : 1
Coaxial Shaft Three Spool with
Accessory Gearbox
Modular Construction
Starter Generator
Oil System
Return System with Pressure
Scavenge pumps
Engine Mounted Tank
Oil cooler
Fuel System
Gear pump with Hydro-mechanical
or Electronic Fuel Controls
Electronic Protection System
Fuel Tank
Fuel Shut-Off Valve
Gauges
LP
HP
FFP
EGT
BAT

Specifications

- Delivered fully assembled.
tested and ready to operate.
- AC power 220/110 Volt required.
- Dimensions(L x W x H): 150 x 120 x 110 cm
- User's manual
- Students' study guide
- CBT (Computer Base Training)
- Wiring diagrams
- Flow schematics
- Components diagrams
- Instructors' training resources