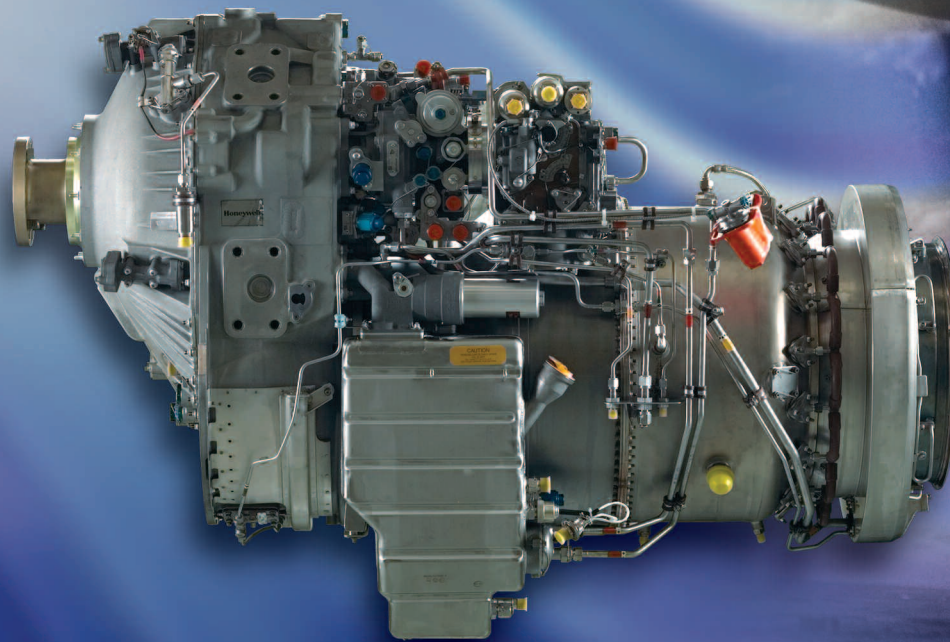


TPE331-14 Turboprop Engine

Honeywell



**INCREASED PERFORMANCE WITH
LOWER COST OF OWNERSHIP**

**Advanced Power and Performance
for Turboprop Aircraft**

TPE331-14

Specifications

(Sea level-standard day)

Power output: shp 1,650
 shp (thermo) 1,759
 eshp 1,833
 emergency APR 2,022

SFC: 0.519

ESFC: 0.497

RPM: gas gen 35,602
 35,645GR/
 35,585HR
 shaft output 1,552

Rotation: GR cw from rear
 HR ccw from rear

Weight: TPE331-14GR
 620 CB (dry)
 TPE331-14HR
 633 CB (dry)

PWR/WT ratio: 2.66 (GR config.)

Pressure ratio: 11.2

Airflow: 12.0 lb/sec

Fuel: Jet A, Jet B, Jet A-1,
 JP-4, JP-5, JP-8, JP8+100

Oil: Mil-L-23699C, Type II
 Mil-L-7808D, F & G,
 Type I

Electrical: 24 vdc, 16.2 amp

Start capability: SL-20,000 ft
 -65°F + 130°F

Operational limits: SL-31,000 ft
 -85°F + 130°F

Compressor bleed: high press. 12% (max)
 interstage 7% (max)
 total 12% (max)

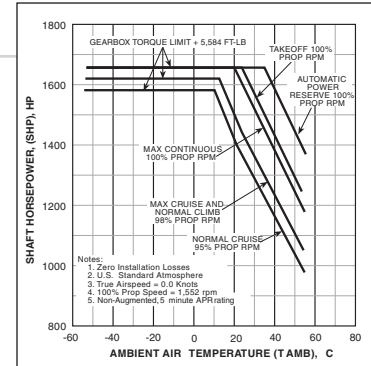
Specification no: 21-8355
 *to 75°F (to 97°F APR)

Basic engine includes

- Fuel pumps, filter, fuel control unit fuel shutoff valve, and fuel anti-ice heating system excluding fuel heater
- Motive flow capability
- Dual ignition system, excluding power source and accessory electrical wiring
- Propeller flange
- Lubrication system, including filter, oil tank and related oil lines
- Strain gauge torque system
- Engine inlet anti-icing system, valve, and plumbing lines
- Propeller oil-flow tube
- NTS/auto feather system

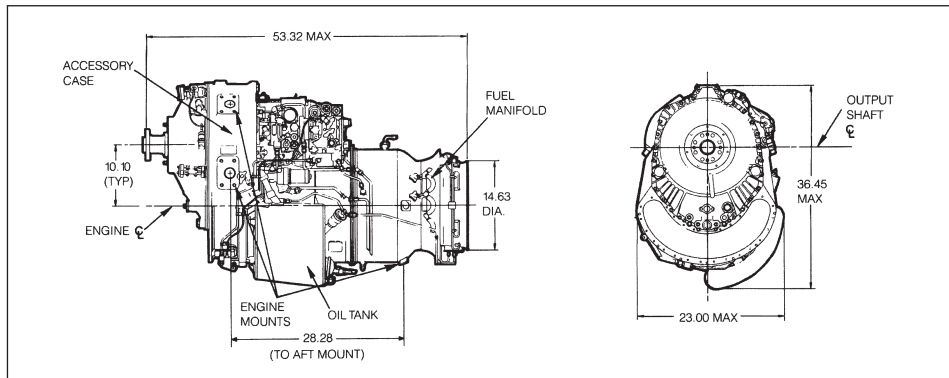
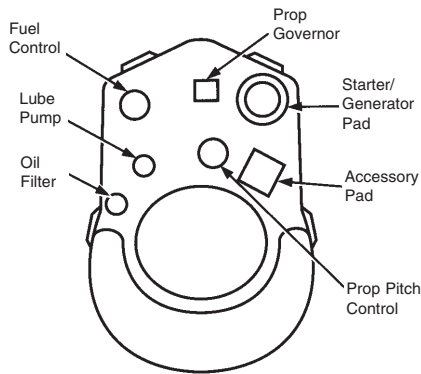
Accessories/features

- Propeller-governor control
- Propeller-pitch control
- Oil filter bypass indicator
- Oil to fuel heat exchanger
- Controls linkage assembly
- Auto ignition switch
- Oil temperature-sensing bulb
- Beta pressure-sensing switch
- Chip detector
- Fire-shield adaptor
- Torque and temperature limiting system
- Fuel purge system
- Variable red line integrated engine control w/trend and exceedance monitoring, and APR control system logic



Nominal Use	Type of Drive (One Each)	Drive Modifications	Rotation Facing Drive Pad and rpm		Maximum Torque (lb-in)			1G Limit Overhung Moment (lb-in)
			-14GR	-14HR	T _C	T _O	T _S	
Aircraft Accessory	AND20001 Type XI-B	Rotation, T _C Stud Pattern Rotated 37 Degrees	4,087 CCW	4,080 CCW	300	375	1,650	100
Starter or Starter-Generator	AS468 Type AV-1	Rotation rpm, T _C , T _O , T _S Overhung Moment	12,115 CCW	12,095 CCW	132	265	2,200	600

CCW = Counterclockwise CW = Clockwise T_C = Continuous torque T_O = Torque overload T_S = Static torque
 TPE331-14GR/-14HR Accessory Drives and Mounting Pads



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