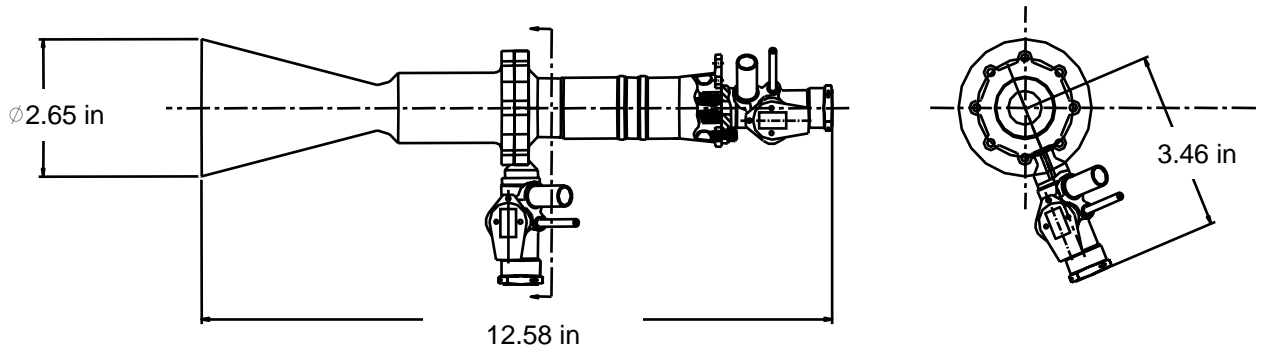


General Kinetics Inc.

250 lbf 90% H₂O₂/Kerosene Rocket Engine

P/N: GK-PD035-201-001



Specifications

- Propellants
 - Oxidizer 90% H₂O₂
 - Fuel RP-1
- Thrust/Weight 75:1
- Dry Mass <4 lbm
- Expansion ratio 15:1
- Inlet Pressure >500 psia
- Status In Development

Description

This injector was designed, built and tested as an advanced interceptor rocket engine.

General Kinetics Inc.

10,000 lbf 90% H₂O₂/Kerosene Rocket Engine Injector

P/N: GK-PD019-220-001



Specifications

- Propellants
 - Oxidizer 90% H₂O₂
 - Fuel JP-5
- C-star Efficiency >95%
- Dry Mass <70 lbm
- O/F 7.0
- Inlet Pressure 500 psia
- Status In Development

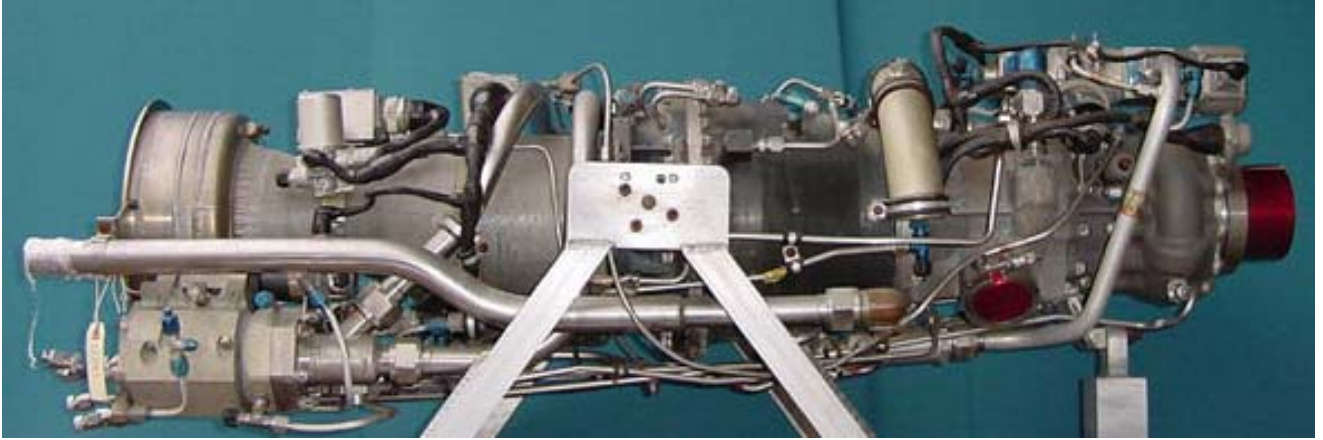
Description

This injector was designed, built and tested as an alternative high performance injector for the USFE Main Engine.

General Kinetics Inc.

LR-40 10,000 lbf 90% H2O2/Kerosene Pump Fed, Regen Rocket Engine

P/N: GK-PD021-201-001



Specifications

- Propellants
 - Oxidizer 90% H2O2
 - Fuel JP-5
- Isp, C-star Efficiency 257 lbf-s/lbm (eps 5.6), ~93%
- Dry Mass 213 lbm
- O/F 7.1
- Chamber Pressure 530 psia
- Diameter, Length 14", 46.6"
- Pump, Ox Min NPSH (start, run) 21.1 ft, 15.7 ft
- Pump, Fuel Min NPSH (start, run) 18.2 ft, 14.7 ft

Description

General Kinetics owns the only existing LR-40 which was qualification tested for 1.5 hrs single duration. The thrust is continuously throttleable over 3,500 to 10,000 lbf and can be further throttled to 1,000 by use of Monopropellant Mode. GK is presently reverse engineering this device for an unspecified customer.

General Kinetics Inc.

H2O2 Hybrid Rocket Engine



Specifications

- Fluid 90% hydrogen peroxide
- C-Star Efficiency > 95%
- Chamber Pressure 500 psia
- Fuels Polyethylene
- Thrust 1500 lbf

Description

The principals of General Kinetics have successfully fired over 160 hydrogen peroxide based hybrids over the last 5 yrs.