Rockwell International

Rocketdyne Division

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H-1

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Initially designed for Apollo program application, the H-1 is a fixed-thrust, single-start gimbaled engine that employs a propellant system of RP-1 (kerosene) and liquid oxygen. Advances include a turbopump with a one-piece gearbox and fuel-additive lubrication, a solid propellant gas generator for start-up, propellant valve sequencing and hypergolic start-up in the thrust chamber.

H-1 Engine Test Firing

Specifications

Type:	Liquid-Propellant, Pump-Fed
Thrust:	205,000 lb
Propellants:	RP-1 (Kerosene)/Liquid Oxygen
Specific Impulse:	263 sec
Mixture Ratio (O/F):	2.23:1
Chamber Pressure:	700 psia
Area Ratio:	8:1
Weight (Flt. Config.):	2,009 lb
Dimensions:	134 in. long/66 in. wide

Saturn IB First Stage With Eight H-1 Engines

For more information contact: ELV Propulsion/Rockwell International/Rocketdyne Division/6633 Canoga Ave./ Canoga Park/CA/91303/(818)700-6027

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