



Reaction Engines Limited Engine Names

NAME	ACRONYM	THRUST (kN)	PROPELLANTS	NOTES
SABRE	Synergistic Air-Breathing Rocket engine	Air 2000 LOX 3000	Air/ Liquid Oxygen Liquid Hydrogen	Air-breathing rocket hybrid engine. Skylon's main propulsion
SCIMITAR	na	380	Air Liquid Hydrogen	Air-breathing engine used on LAPCAT study.
SOMA	Skylon Orbital Manoeuvring Assembly	2 x 50	Liquid Oxygen Liquid Hydrogen	Twin chamber engine. Used in pairs in Skylon's orbital manoeuvring system.
SANGRAIL	na	2.3 – 31.8	Nitrogen Tetroxide Hydrazine	Highly throttleable main propulsion system for the Excalibur multi-role capsule study.
SAPPHIRE	na	1000 Class	Liquid Oxygen Liquid Hydrogen	Ultra high chamber pressure rocket engine study.
SERPENT	na	8000	Liquid Hydrogen	Nuclear rocket engine study.
STERN	Static Test of ED Rocket Nozzle	5	Gaseous Air Gaseous Hydrogen	Heat sink cooled research engine with expansion deflection nozzle.
STRICT	Static Test Rocket Incorporating Cooled Thrust-chamber	TBD	Gaseous Air / (Oxygen?) Gaseous Hydrogen	Water cooled research engine with expansion deflection nozzle.