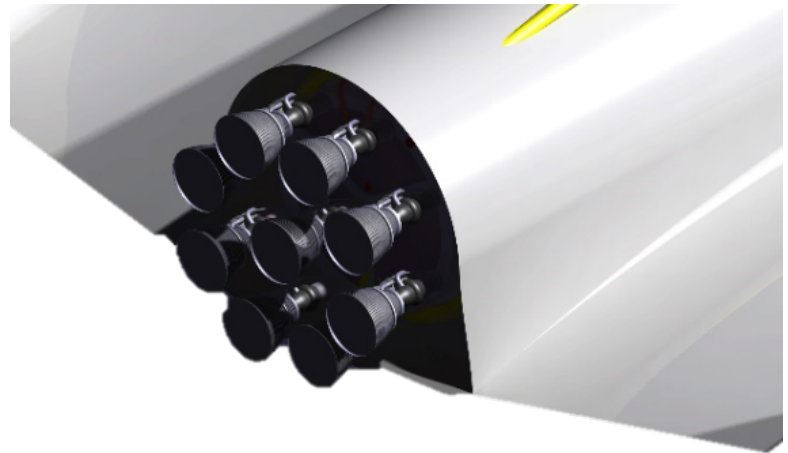
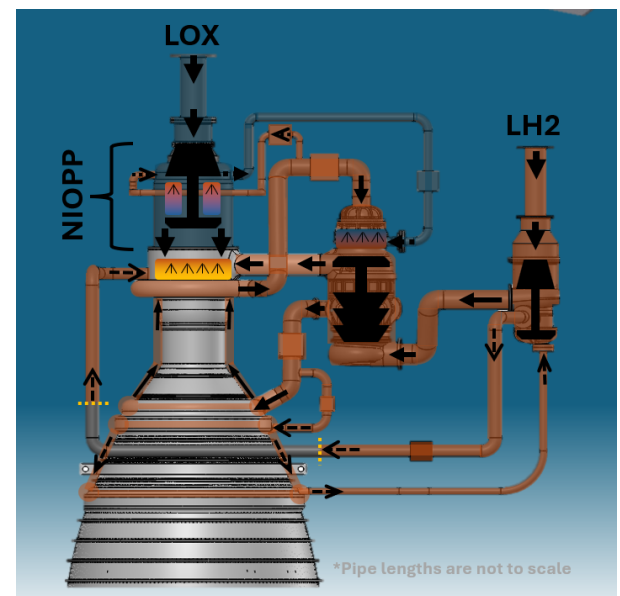




The SpaceLiner Main Engine (SLME) designed by SoftInWay Switzerland and DLR-SART funded by GSTP with European Space Agency (ESA) is a 200t class staged combustion engine designed for reusable heavy launch applications. The SLME-NIOPP features an Integrated Oxygen Power Pack (NIOPP) in-line with the Main Combustion Chamber. The SLME-NIOPP architecture is unique for Europe and offers significant advantages for Thrust to Weight Ratios. The relatively low combustion chambers and turbine inlet temperatures result in a cheaper and more accessible engine.



Cycle Type	Full-Flow Staged
Vacuum Thrust	2200 kN
Specific Impulse	436 s
Combustion Pressure	160 bar
Propellants	LOX-LH2
Propellant Mass Flow	514 kg/s
Mixing Ratio	6
SLME-NIOPP Height	3.48 m
Nozzel Outlet Diameter	1.78 m



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