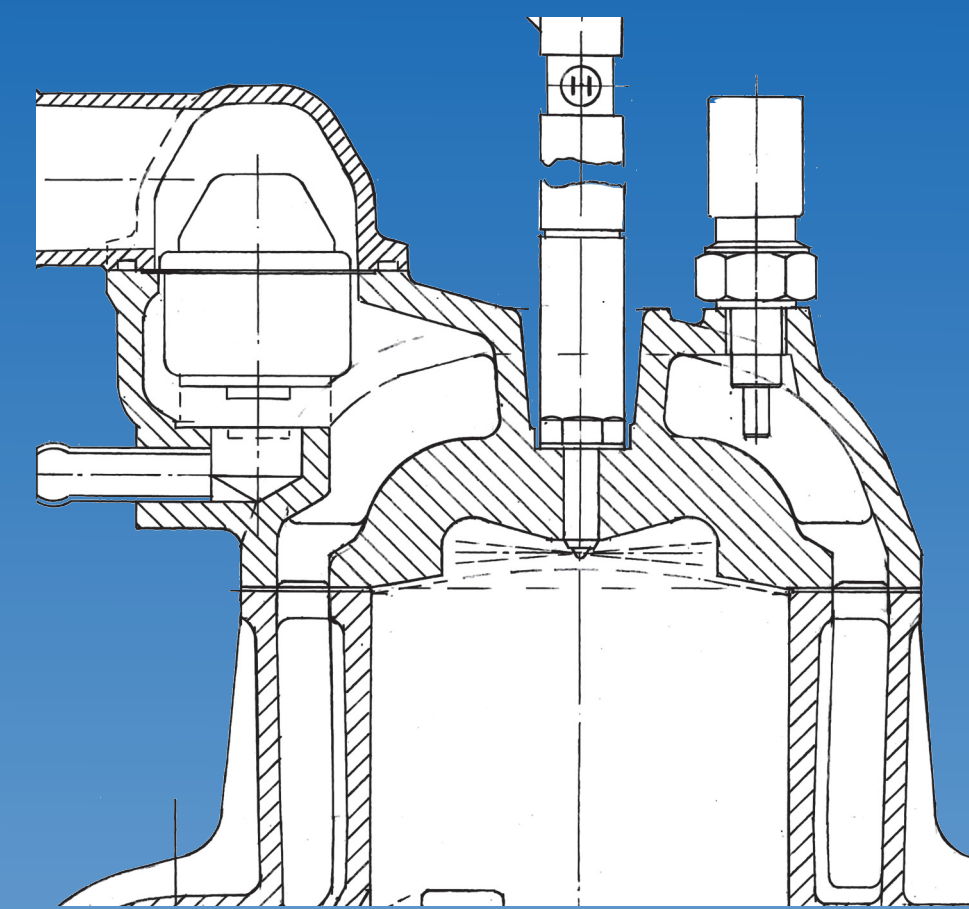
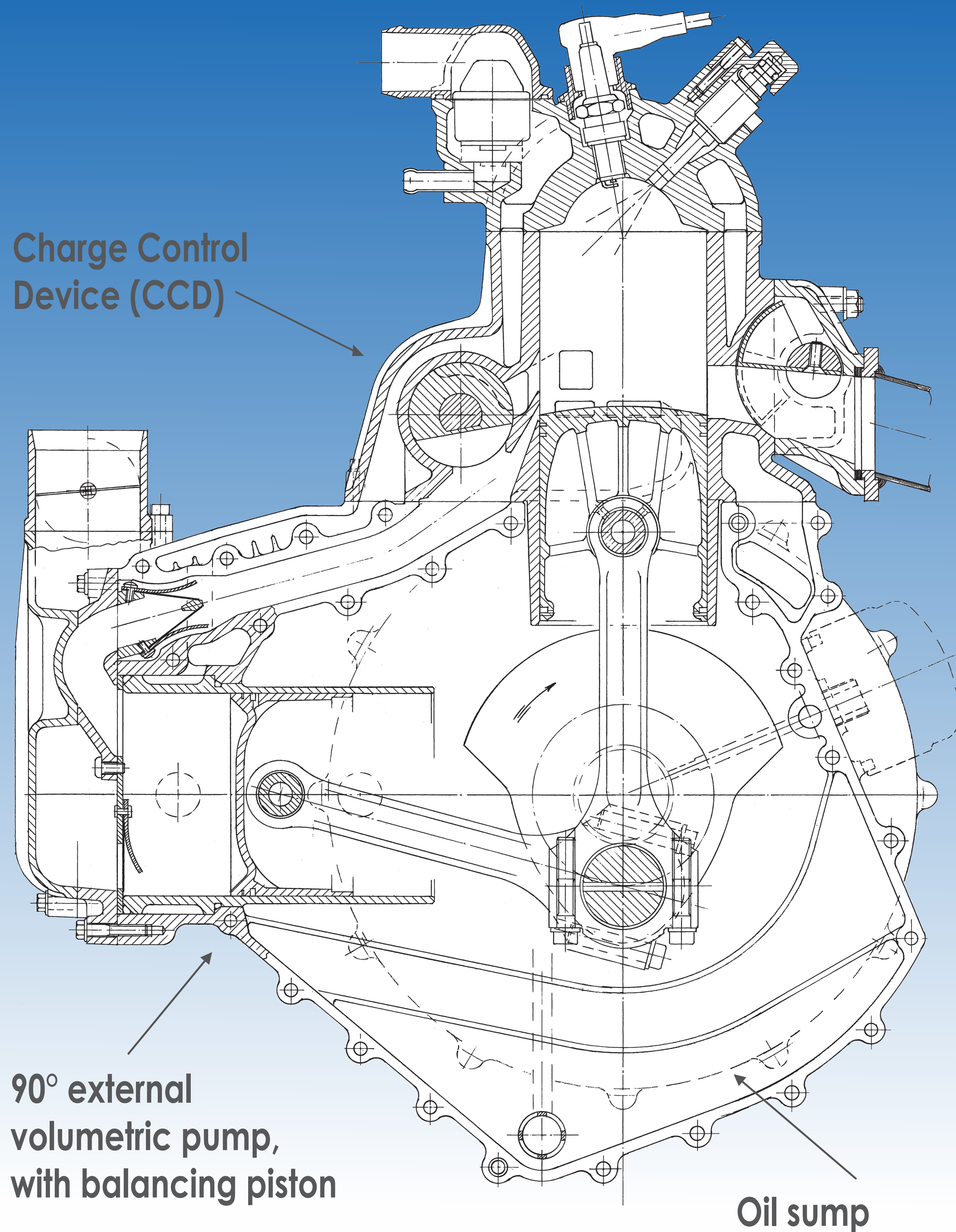
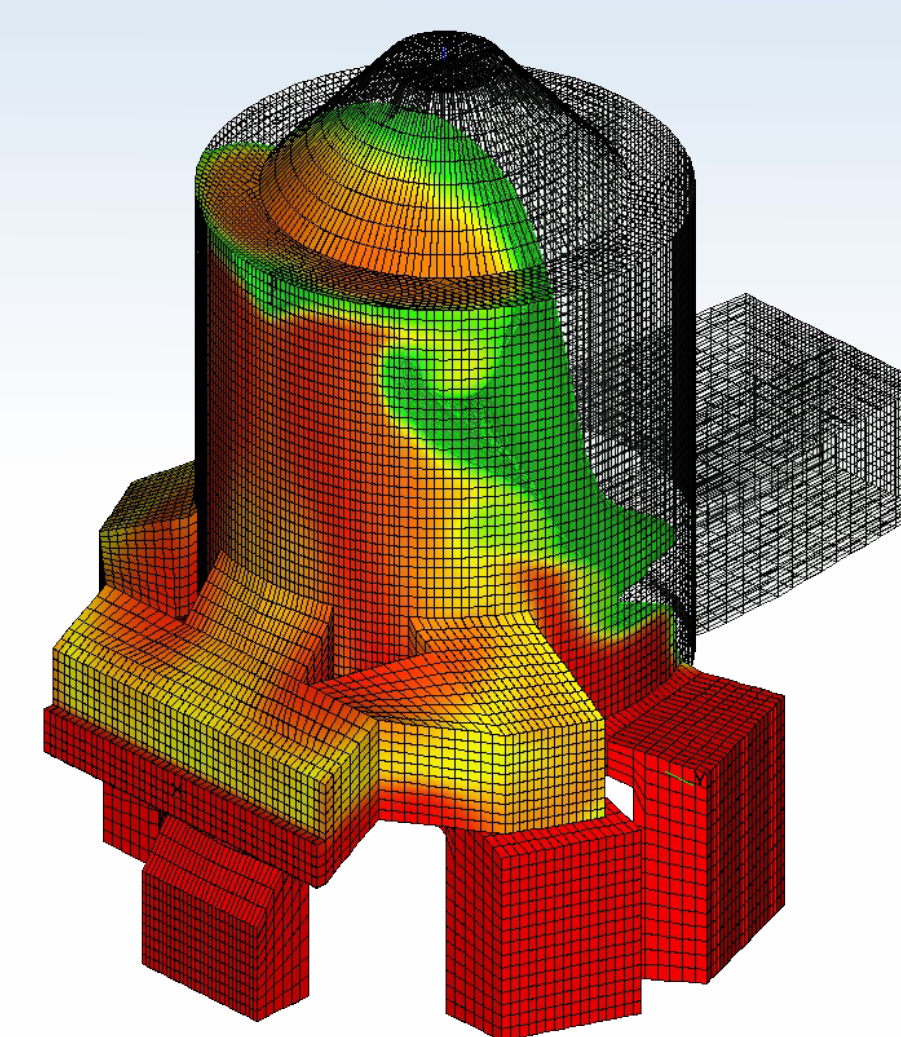


Clean 2-Stroke as Innovative Solution for RE-EVs and Low CO2 Emission Vehicles



MONO and TWIN diesel or gasoline 2-Stroke engines
10 to 85 kW power output

- Air supply realized by external volumetric pump, with balancing function
- High pressure direct fuel injection system
- Lubrication system "4-Stroke like"
- Extension of Smoke-less and NOx-less operation to higher load compared to 4-Stroke
- Patented rotary valve (Charge Control Device) to realize
 - › supercharging control, scavenging optimization
 - › internal EGR
 - › starting torque reduction
 - › performance optimization of alternative fuels (CNG, LPG)



Deep analysis performed by UNIMORE using 1D/3D CFD codes (GT Power, KIVA-3V)

Results for the studied 487cc MONO

	GDI	Diesel DI	Diesel DI Turbo
Max Power (kW@rpm)	60@5500	27@4000	36@3400
Bsfc (g/kWh@rpm)	242@3000	255@1400	225@3200
Weight (kg)	34,0	39,4	38,7
Specific Power (kW/l)	122	55	73

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