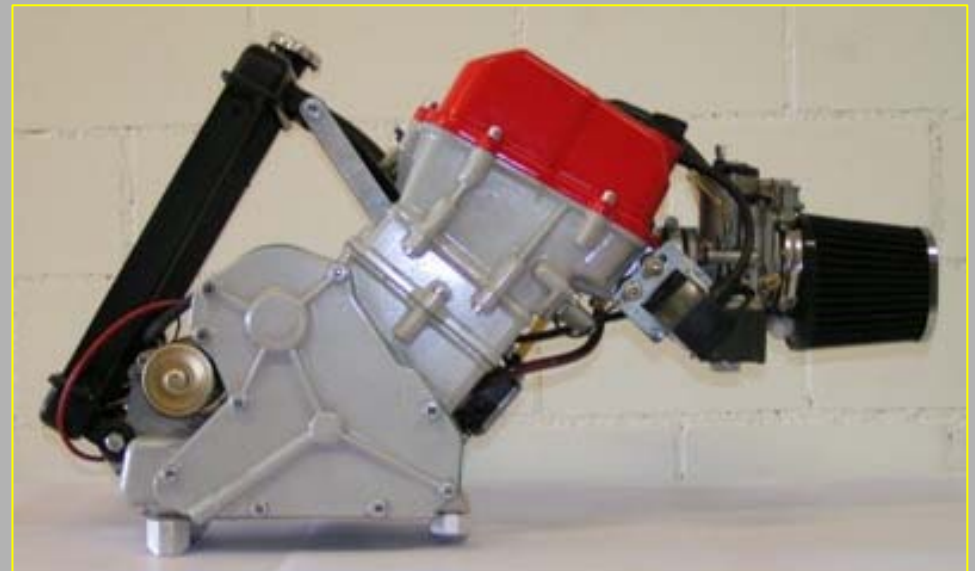


Development of Combustion Engines
Development of Charging Systems



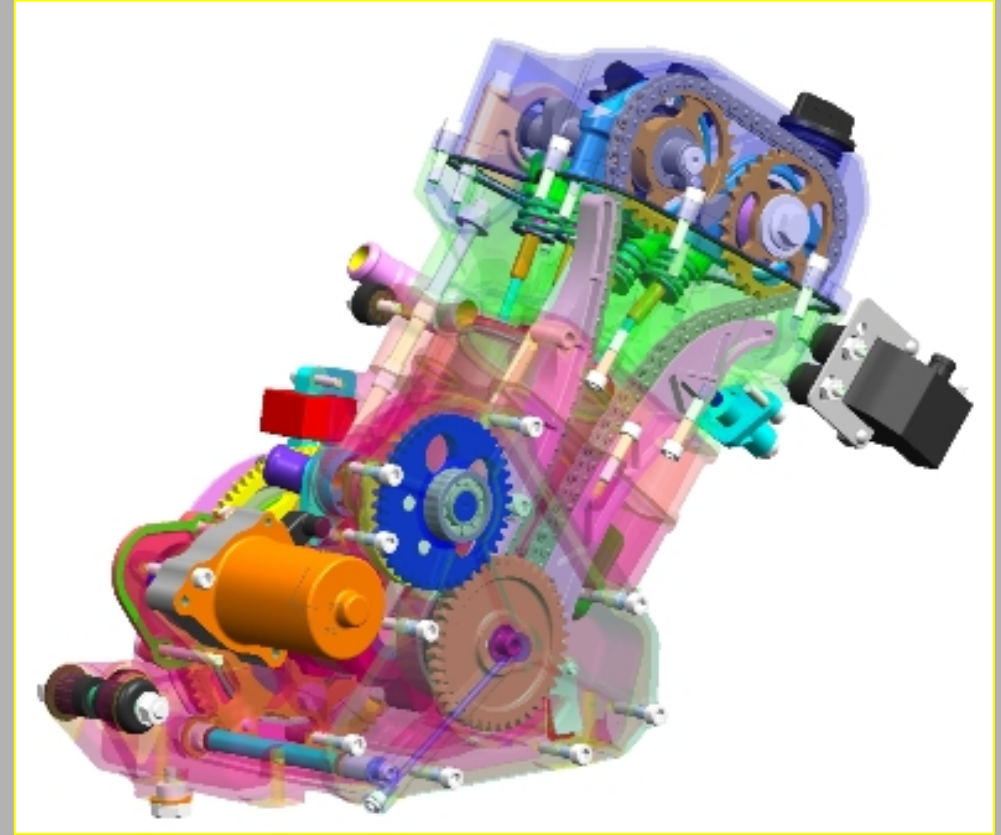
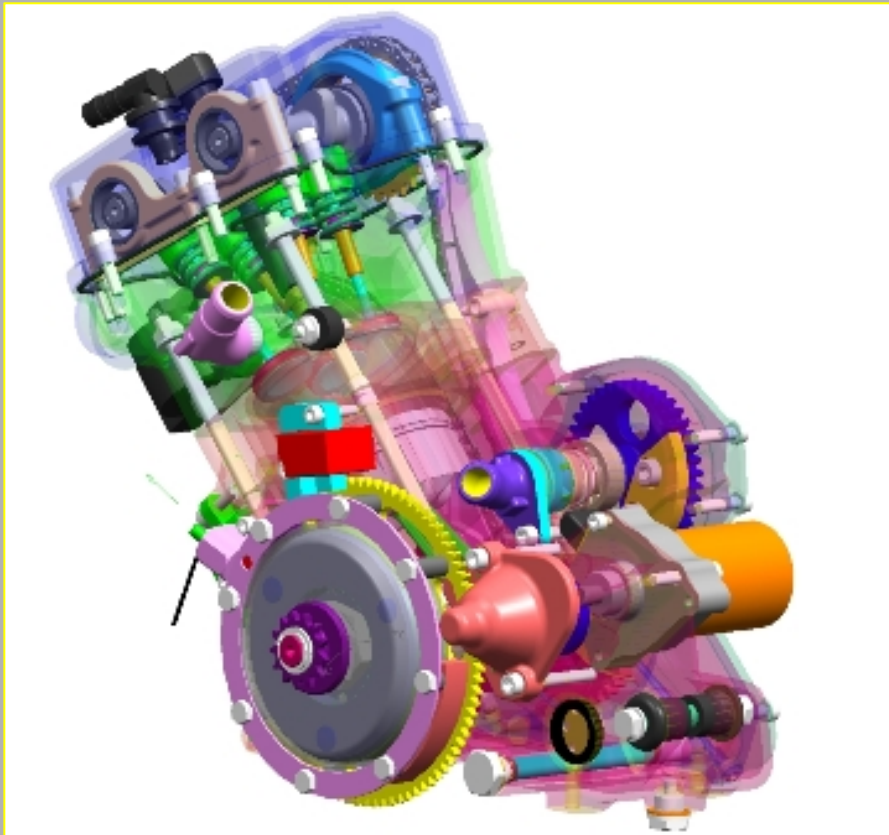
swissauto 250 Kart Racing Engine



***swissauto 250* Kart Racing Engine**

- Successor of the famous SA 250 (Biland) engine
- Newest style engine design
- Best power to weight ratio in class
- Lowest cost 4 stroke engine
- Simplest engine system
- Easy to build up on the Kart
- Low maintenance

swissauto 250 Engine Concept



***swissauto* 250 Technical Data**

Engine	:	1 cylinder 4 Stroke with balance shaft
Cooling	:	Water cooled, water pump in engine block integrated
Engine Housing	:	gravity die cast Aluminum
Cylinder	:	gravity die cast Aluminum with Nicasil coating
Bore / Stroke	:	75 / 56.5 mm
Displacement	:	249.6 cc
Power	:	35 / 39 HP at 10'000 1/min. with 30 / 34 mm carburetor
Cylinder head	:	4 Valves per Cylinder, DOHC on Roller bearings
Crankshaft	:	Steel, forged, build up with Roller bearings
Piston	:	Aluminum forged
Connection rod	:	Steel, forged, Roller bearing
Lubrication system	:	Integrated dry sump with diaphragm pump
Ignition	:	Digital CDI with rev Limiter
Carburetor	:	Dell'Orto Ø 30 / 34 mm
Fuel pump	:	Vacuum pump integrated in the engine housing
Gearbox	:	Direct drive with centrifugal clutch and chain drive
Dimensions	:	L / W / H = 410 / 190 / 330 mm
Engine weight	:	15 kg including starter

swissauto 250 System weight comparison with 2 Stroke



125cc 2 Stroke
25.7 kg



swissauto 250
25.8 kg

swissauto 250 Engine on Kart



swissauto 250 Engine on Kart



swissauto 250 Engine on Kart

