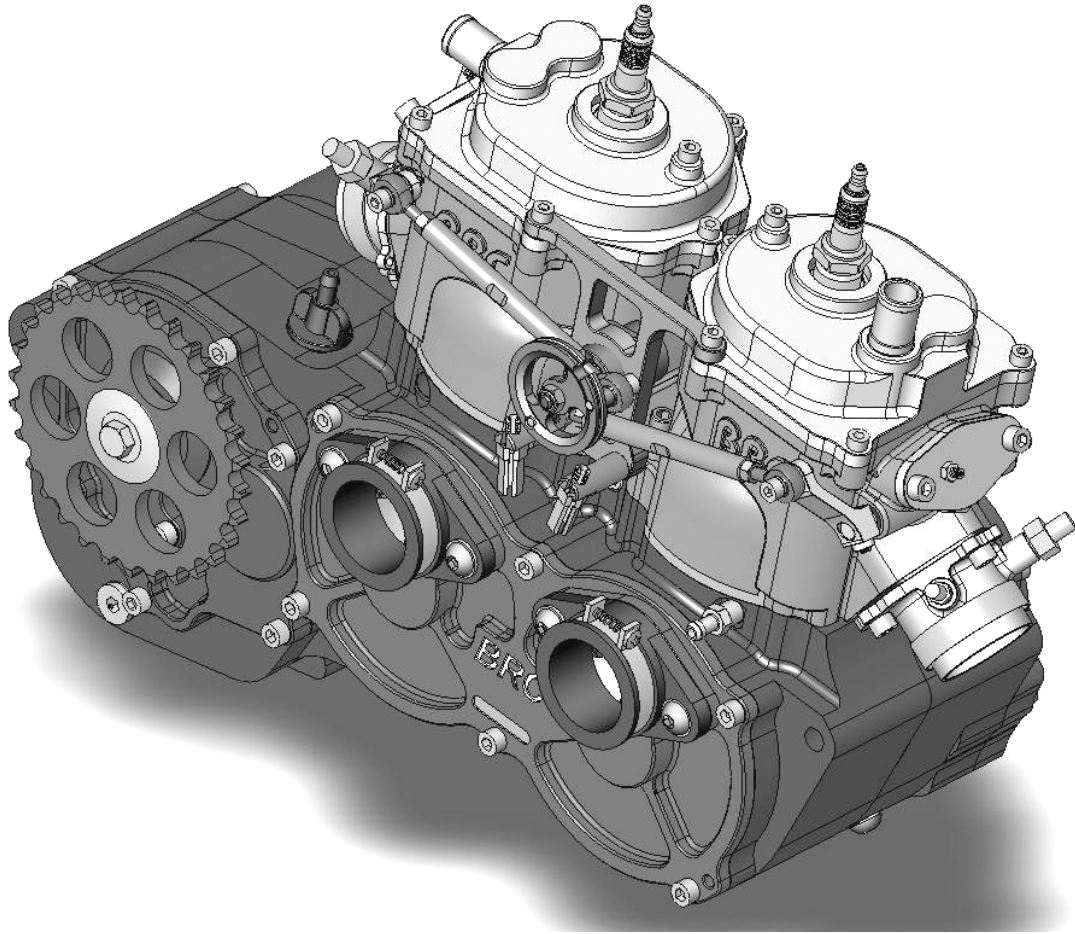




## BRC Racing BRC250FE Engine

### TECHNICAL DATA



DESCRIPTION:	twin cylinder, two-stroke, rotary valve, electronic or pneumatic two stage exhaust valve, water-cooled, external water pump, 6-speed cartridge gearbox, digital ignition, oil-in-fuel lubrication.
BORE:	54 mm
STROKE:	54.5 mm
DISPLACEMENT:	249.6 cm <sup>3</sup>
ROD LENGTH:	115 mm
POWER OUTPUT:	90 HP +
TORQUE:	38.0 Ft*Lbs. +
RECOMMENDED OPERATION R.P.M.:	13,200 rpm
MAXIMUM ALLOWED OPERATION R.P.M.:	14,000 rpm



## BRC Racing BRC250FE Engine

### TECHNICAL DATA

PISTON:	cast aluminum piston with one rectangular piston ring.
CYLINDER:	BRC light alloy cylinder, NIKASIL plated
COMPRESSION RATIO:	14.0-17.5 : 1 (14.0:1 standard) ten combustion chamber inserts available
IGNITION UNIT:	BRC / Speed Concepts CDI
IGNITION TIMING:	Programmable with four curve selector switch
INTAKE SYSTEM:	carbon rotary valve
EXHAUST VALVE:	two stage pneumatic or electronic controlled
CARBURETOR:	VHSB39ND Dellorto flat side carburetor
FUEL	according to regulations: VP C12, VP MR8, ELF MITS-31, 108 octane, leaded
LUBRICATION (GEARBOX):	splash lubrication, 0.70L ISO VG 100 (at operation in KART) motul transoil
LUBRICATION (PRIMARY DRIVE):	splash lubrication 0.30L VG 100 (at operation in KART and on test bench) motul transoil
COOLING SYSTEM:	watercooled, external axel water pump for circulation of water through crankcase, cylinder and cylinder head, closed water circuit.
CLUTCH:	dry multi-plate
TRANSMISSION:	6-speed cartridge gearbox, constant mesh, dog engagement, rotary change
GEAR SHIFTING:	left side shifting, neutral between 1 <sup>st</sup> and 2 <sup>nd</sup> speed, 1 <sup>st</sup> forward, 2 <sup>nd</sup> – 6 <sup>th</sup> speed back
PRIMARY REDUCTION RATIO:	2.636 : 1 (22 : 58)