

RED A03 • V12 • 6100cc / 374 cu in

The RED A03 is a water-cooled, 12-cylinder Diesel/Jet-A engine in V-configuration with four overhead spur-gear camshafts (double overhead camshaft DOHC). For safety reasons each cylinder bank possesses an independent exhaust, cooling, air induction and fuel system.

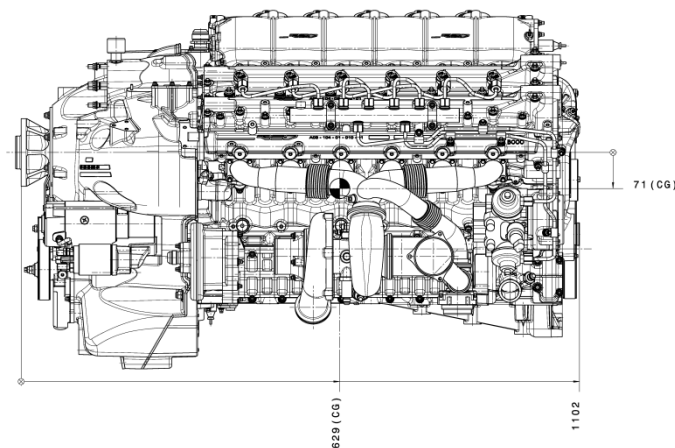
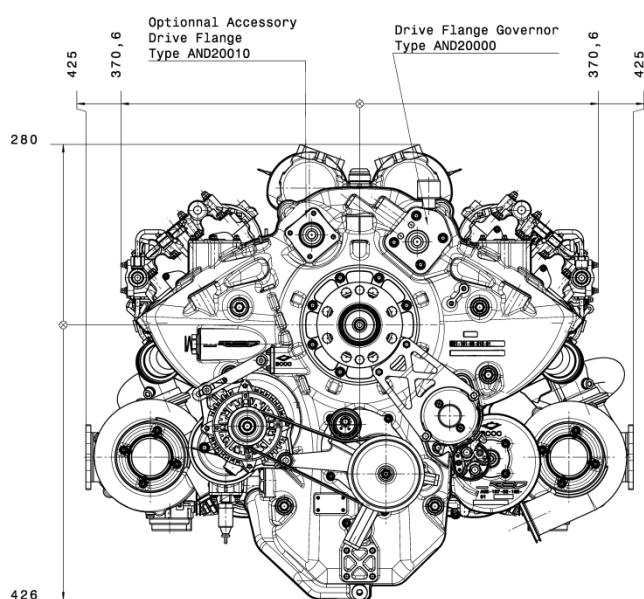
The oil system incorporates a dry sump and features suction pumps and one pressure pump. The fuel system is operated by common rail direct injection. The engine's operating characteristics are controlled and monitored by means of an EECU. The redundant engine management system features DAL B software and hardware layout. The RED A03 is equipped with an electric starter and two alternators. The propeller is driven by a flanged transmission.

Engine Specifications

Displacement	6134 ccm / 374 cu in
Bore	86 mm / 3.39 in
Stroke	88 mm / 3.46 in
Take-off power	500 PS / 500 HP
Maximum continuous power	480 PS / 480 HP

Installation Dimensions

Width at cylinder heads	741 mm / 29.17 in
Width at exhaust flanges	850 mm / 33.46 in
Height	706 mm / 27.80 in
Length to propeller flange	1102 mm / 43.39 in



Engine Performance Data

	Engine speed min-1	Propeller speed min-1	Propeller torque Nm / ftlb	Shaft power KW / HP	BSFC gr/KWh / lb/HPH
Take-off sea level	4000	2127	1650 / 1217	368 / 500	225 / 0.364
Take-off at 5000 ft	4000	2127	1650 / 1217	368 / 500	235 / 0.380
Max. continuous FL80	3750	1995	1688 / 1245	353 / 460	220 / 0.355
Best economy sea level	3500	1862	1510 / 1114	294 / 400	210 / 0.339