

AC1 AD1

Advanced
direct injection
Diesel engines

Specifications & Technical Data



The right diesel
for the job.

CONSTRUCTION

- 40 hp (30 kW) maximum displacement
- Single bearing surface for decreasing structural weight
- **ADVANCE**

• 50% reduction in counterbalance, leading to the lightest and most maneuverable

- 40% increase in bearing life for fuel pump

COOLING

- Air cooling by means of a highly efficient fan
- **AVANCE**
- Designed for continuous operation in ambient air to 130°C (266°F)

OPERATING

- The low thermal expansion coefficient of counterbalance is aluminum-silicon alloy
- It replaces cast-iron parts that are casted
- Oil sprays internal roller tops

AVANCE COMPLETE EXTENDING

- Direct injection combustion system for easy starting and low consumption
- **AVANCE**
- New 100% fuel pump and air intake
- New timing to optimize air for optimal expansion of the new aluminum piston arrangement and system
- Timing for the air intake is optimized in accordance with the engine
- Full water cooling is optional

AVANCE

- Mechanical governor is available for other engine speed or variable speed/governing in the field



AVANCE is a new generation of diesel engines with the following features:

- Governor and governing is available for 1500, 1800, 2000 & 2400 rpm (also 3000)

AVANCE

- Governor available at 1500 for fuel injection gear and 1800 rpm in multi injection gear with variable injection advance air intake

AVANCE

- AVANCE can run at 1500 rpm for use for low-noise

AC1 AD1 1500 RPM

POWER OUTPUT - 1500 RPM					
Engine Speed rpm		Continuous Power (Standard Power)			
		AC1	AD1	AD1	AD1
1500	kW	6.8	-	12.2	-
	hp	9.2	-	16.5	-
1800	kW	8.8	12.2	16.5	19.8
	hp	11.9	16.5	22.4	26.8
2000	kW	12.7	16.5	22.4	26.8
	hp	17.2	22.4	30.3	36.1
2400	kW	18.8	26.8	36.1	44.7
	hp	25.6	36.1	49.4	60.2
3000	kW	24.8	36.1	49.4	60.2
	hp	33.5	49.4	66.8	81.8
3600	kW	31.7	49.4	66.8	81.8
	hp	42.8	66.8	90.7	110.6

POWER OUTPUT - 1500 RPM			
Engine Speed rpm		Maximum Power	
		AC1	AD1
1500	kW	14.1	-
	hp	19.0	-
1800	kW	19.0	26.8
	hp	25.8	36.1
2000	kW	26.8	36.1
	hp	36.1	49.4
2400	kW	36.1	49.4
	hp	49.4	66.8
3000	kW	49.4	66.8
	hp	66.8	90.7
3600	kW	66.8	90.7
	hp	90.7	123.1

