



## **GRUPA GWARANT**

### **FAMILY ENGINES 4CT90 AND 4CTi90**

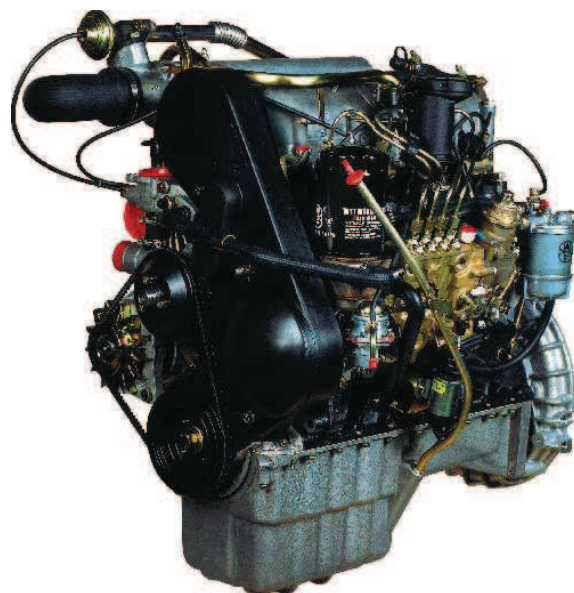
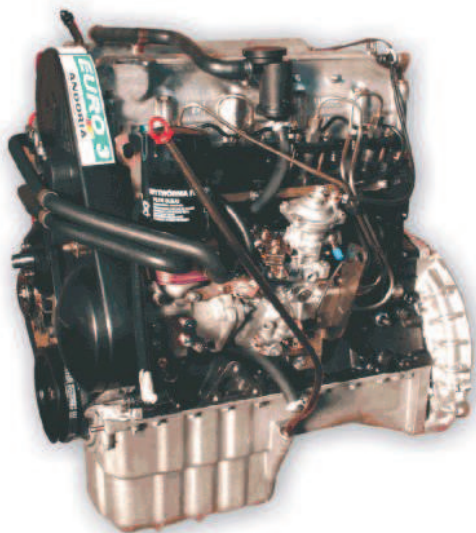
4CT90 Engine - our own design , 4-cylinder, 2.4 l engine with turbocharger, manufactured in the two following versions:

- Rated power of 66 kW at 4100 rpm, peak torque of 195 Nm at 2500 rpm, with in-line injection pump of MOTORPAL, that meets EURO 2 emission standards.

- Rated power of 75 kW at 4100 rpm, peak torque of 230 Nm at 2500 rpm, with distributor - type injection pump of BOSCH and charged air cooler (intercooler), that meets EURO 3 emission standards (without electronic control).

The Engines are use in the Light Duty vehicles:

- Lublin,
- Gazelle,
- UAZ,
- HONKER.



### **ANDORIA-MOT Sp. z o. o.**

34-120 Andrychów ul. Krakowska 140

tel. +48 33 8762682, +48 33 8762728

fax +48 33 8753560

e-mail: [andoria-mot@andoria-mot.com.pl](mailto:andoria-mot@andoria-mot.com.pl)

[www.andoria-mot.com.pl](http://www.andoria-mot.com.pl)



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### TECHNICAL DATAS OF ANDORIA DIESEL ENGINES 4CT90, 4CTi90

Parameters	4CT90-1MEA	4CTi90-1BEA
No. of cylinders	4, diesel, 4 stroke, in line	
Bore diameter (mm)	90	
Piston stroke (mm)	95	
Displacement (cm <sup>3</sup> )	2417	
Compression ratio	20.6	
Rated power (kW/HP)	66/90	75/102
Rated speed (rpm)	4100	
Peak torque (Nm)	195	230
Peak torque speed (rpm)	2500	2000 - 2500
Minimum idle speed (rpm)	800	
Spec. fuel cons. at rated power (g/kWh) 5%	260	255
Oil cons. referred to rated power (g/kWh)	4.1	
Lubrication	Pressure and splash	
Engine oil	Grade CD/CE/CF SAE 10W40	
Lubrication oil capacity (l)	~7	
Injection pump	MOTORPAL in-line	BOSCH distribution
Fuel delivery	Diaphragm feed pump	-
Fuel injection	indir., Ricardo Comet VB swirl chamber	
Cooling	Liquid forced cooled	
Cooling system capacity (l)	6.8	
Power take-off	from flywheel	
Timing advancer	Automatic centrifugal	
Dry weight (kg)	232	

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