

Automotive

Thanks to its in-depth knowledge of both markets and products, VM Motori is able to offer a range of engines which perfectly comply with the customer's needs in terms of performance and operating costs.

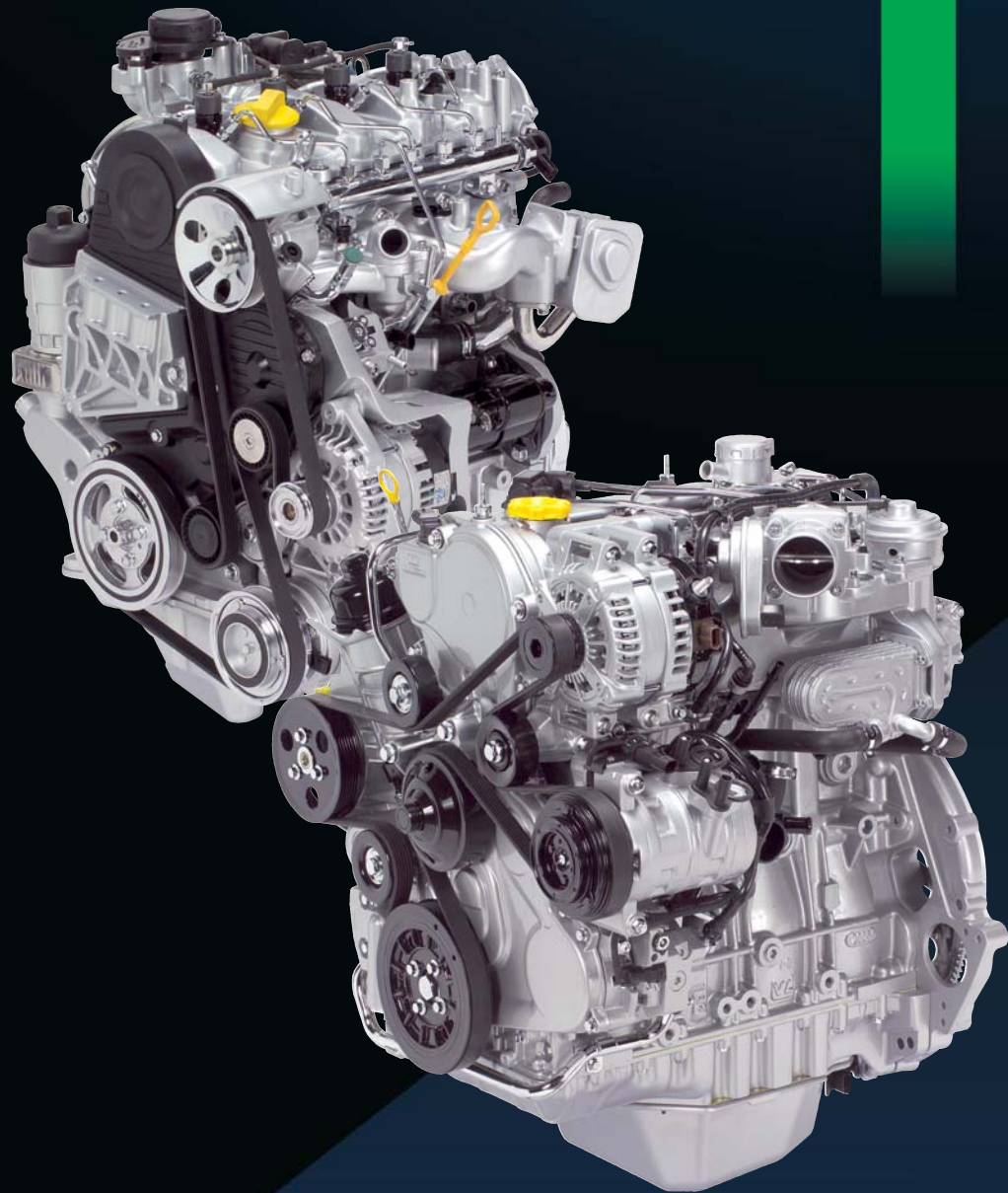
Our portfolio includes engines with 4 valves per cylinder, ranging from 1500cc to 3000 cc, of 3 or 4 cylinder in-line or 6 cylinder V 60° configuration.

The engines are turbocharged and intercooled and have electronically controlled direct injection, second generation common rail systems. For the more sophisticated needs we can offer the 1600 bar common rail system together with Variable Geometry Turbo (VGT), high efficiency emission control devices and balance shafts; all of which guarantee a high level of performance and low fuel consumption whilst at the same time containing noise and vibration.

The high specific power and high torque at low rpm ensure sparkling performance and great flexibility even on vehicles in the Minivan and SUV segments.

VM Motori is very attentive to environmental issues and has designed engines that are capable of meeting the most stringent European and North American Emission standards, which strongly limit NOx and particulate levels. Furthermore, the engines have

provision to introduce those additional modifications necessary to achieve any future constraints that are introduced.



Engine Model	No. of Cylinders & Configuration	Bore x Stroke mm	Total Displ. l	Max. Power 80/1269/EC			Max. Torque			Main Dimensions			Weight (approx)	
				kW	Hp	rpm	Nm	Kgm	rpm	Length mm	Width mm	Height mm	Kg	lbs
R 425 DOHC	4 l	92 x 94	2.499	105	143	4000	340	34.7	2000	540	645	682	220	485
R 428 DOHC		94 x 100	2.776	120	163	3800	400	40.8	2000	540	645	682	220	485
RA 315 SOHC	3 l	83 x 92	1.493	73	100	4000	200	20.04	2000	403	580	671	140	309
RA 420 SOHC	4 l		1.991	110	150	4000	310	33.7	2000	499	620	671	170	375
RA 428 DOHC	4 l	94 x 100	2.776	130	177	3800	460	46.9	2000	540	645	682	205	452
RA 630 DOHC	6 v	83 x 92	2.987	184	250	4000	550	56.1	2000	525	680	705	220	485

For commercial vehicle applications, power outputs and rpm may be downgraded.

l: In line - v: 60° V