

DIESEL ENGINE **YMZ-53403**



YMZ

EURO 5

- Wide power range of 150-210 hp and torque of 490-780 Nm provide optimal traction and dynamic characteristics of the vehicles
- Emission class 5 (euro-5)
- Improved technical and economic parameters of the engine
- Increased reliability and a vehicle service life is up to 1 mln. km
- Maintenance interval is up to 50 thous. km
- Application of new effective Russian-made components: turbochargers, high pressure fuel pumps by YZDA and others
- Low maintenance cost

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TECHNICAL SPECIFICATIONS OF YMZ-53403

Basic model and versions	YMZ-53403	YMZ-53423	YMZ-53443
Bore and Stroke, mm	105 x 128		
Total displacement, l	4,43		
Cylinder number and arrangement	L4		
Rated power, gross, kW (hp)	154,4 (210)	125 (170)	110 (150)
Net power (UN regulations No. 85), kW (hp)	153,6 (208,9)	124 (168,5)	109 (148,5)
Rated engine speed, min ⁻¹	2300		
Maximum torque, gross, Nm (kgf·m)	780 (79,5)	664 (67,7)	490 (50)
Speed at maximum torque, min ⁻¹	1200-1600	1200-1600	1200-2100
Minimum specific fuel consumption, g/(kW·h) /g/(hp·h)	198 (146)	193 (142)	197 (145)
Overhaul life, km	900 000	600 000	700 000
Overall dimensions, mm L / W / H	884 / 708 / 891	884 / 708 / 891	941 / 715 / 976
Weight, kg	500	480	480
Purpose	buses medium class LiAZ-4292	buses PAZ, KAVZ	automobiles medium duty "GAZon Next"

Engine type

4-cylinder in-line diesel engine of YMZ-530 family, 4-stroke, liquid-cooled, turbocharged, supercharged air-cooled, "air-air" type

Design features of models euro-5

To achieve the level of environmental class euro-5 and higher technical and economic parameters the following are applied:

- EGR system (exhaust gas recirculation) and exhaust catalyst
- fuel equipment with high energy injection
- upgraded turbocharger system with turbochargers by "Turbotechnika" or Borg Warner

Ecology

Engine complies with UN rules No. 24-03, No. 49-05B2 (G) - euro-5

The upgraded electronically controlled fuel supply system euro-5 of common rail type includes a new high pressure fuel pump 53 series by YZDA production, fully adapted to operate with Bosch components



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