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## YG295 柴油机汽缸盖总成设计

**摘要:** 柴油机的出现到现在已经有一百多年的历史，在这漫长的发展过程中，柴油机不断的改进和提高，已经到达一个比较完善的成度。内燃机以其热效率高、节约燃料和较长的使用寿命著称于世界。

与汽油发动机相比，小型柴油发动机可节省约 15%至 30%，并且二氧化碳和各种有机废气的排放也低于汽油发动机。柴油机的应用范围越来越广。随着改进水平的提高，柴油机单位输出功率净重也显著下降。为了保护环境和节约能源，世界上所有国家都将重视改善点火的全过程，对劣质汽油和柴油以及非石油产品的科学研究。此外，减少摩擦损伤，使用有机废气涡轮增压器和增加进气量，进一步的轻量化，高效运行，低油耗，低噪音和清洁能源等是柴油发动机的主要发展前景。

随着柴油机技术的发展趋势，再加上柴油车在驱动力、合理性和维护周期方面的优势，它具有优于燃油车的优势。乘用车柴油化的发展趋势越来越明显。交通部门专家预测：由于清洁燃料汽车（电动车、太阳能车、燃氢汽车等）近期难以实现技术上的突破，还无法达到实用普及，21 世纪将是柴油机大行其道的时代。

**关键词:** 柴油机，汽缸盖，汽缸盖罩；

## **Design of YG295 diesel engine cylinder head assembly**

**Abstract:** The emergence of diesel engine has a history of more than 100 years. In this long development process, the continuous improvement and improvement of diesel engine has reached a relatively perfect degree. Internal combustion engine is famous for its high thermal efficiency, fuel saving and long service life.

Compared with gasoline engine, small diesel engine can save about 15% to 30%, and the emissions of carbon dioxide and various organic exhaust gases are also lower than gasoline engine. The application of diesel engine is more and more extensive. With the improvement of the level, the net weight per unit output power of diesel engine is also significantly reduced. In order to protect the environment and save energy, all countries in the world will pay attention to improving the whole process of ignition and scientific research on inferior gasoline, diesel and non petroleum products. In addition, reducing friction damage, using organic exhaust turbocharger and increasing intake air volume, further lightweight, efficient operation, low fuel consumption, low noise and clean energy are the main development prospects of diesel engines.

With the development trend of diesel engine technology, combined with the advantages of diesel vehicle in driving force, rationality and maintenance cycle, it has advantages over fuel vehicle. The development trend of passenger car diesel is more and more obvious. Experts from the transportation department predict that the 21st century will be a time when diesel engines will become popular because clean fuel vehicles (electric vehicles, solar powered vehicles, hydrogen burning vehicles, etc.) are difficult to achieve technological breakthroughs in the near future and cannot reach practical popularization.

**Keywords:** Diesel engine, Cylinder head, Cylinder head cover

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