



**件件硬实力
才敢硬碰硬**





FROM DESIGN TO INSTALLATION, FP DIESEL® COMPONENTS BRING PROVEN TECHNOLOGIES TO ALMOST EVERY COMMERCIAL ENGINE.

This commitment to leading-edge technology is evident in FP Diesel® engines and sealing components, where having the right replacement part means more than simply matching the product's dimensional characteristics.

FP Diesel develops and tests new engine repair solutions through DRiV's global network of research facilities, in many cases improving on original materials and designs to address the real-world challenges encountered in rebuilding engines.



With FP Diesel, you're getting a more appropriate solution in the form of trusted technologies engineered to address the unique demands and operating environments of each engine.

Global emission regulations have resulted in increasing temperatures and pressures within diesel engines, with more stringent emissions and fuel economy legislation. FP Diesel offers a more appropriate solution in the form of enabling technologies engineered to address the unique demands and operating environments of today's emission-compliant engines.



Europe/Middle East/Africa:
Federal-Mogul Global Aftermarket BV
Prins Boudewijnlaan, 5 - 2550 Kontich - Belgium

Rely on FP Diesel for the most complete range of replacement components for hard-working engines!



从设计到安装， FP DIESEL® 产品将成熟技术应用于几乎所有商用发动机。

FP Diesel 对尖端技术的执着追求充分体现在其发动机和密封件产品中，旗下产品忠于原装尺寸，更是超越原装性能。

FP Diesel 依托德雷威全球化研究中心开发并测试新发动机维修解决方案，可在许多情况下优化原材料与设计，应对发动机维修过程中遇到的实际挑战。



选择FP Diesel，您将获得更为适合可靠的技术解决方案，专为满足每款发动机的独特需求和工作环境而设计。

随着全球排放法规日趋严格，柴油机内部温度和压力不断增加，排放和燃油经济性方面规定也更为苛刻。FP Diesel为您提供更为合适的先进技术解决方案，专为满足如今排放合规发动机的独特需求和应用环境而设计。



德雷威售后中国经销商：
广州铎盛机械设备有限公司

选择FP Diesel，为您高效运转的发动机提供全方面、全系列以及综合性的产品解决方案。

上海德雷威汽车工业有限公司
德雷威官网: DRiV.com
电话: 021-30578008





POWER GENERATION

FP Diesel parts are precision-engineered to meet the most demanding specifications. They're designed and tested to withstand brutal operating environments. And they're proven to perform no matter where they go.



CONSTRUCTION & MINING

From workboat applications to onboard generator sets and pumps, FP Diesel engine components are ideally suited to extended life in the marine environment. Maximizing your equipment investment means finding the best replacement components. That's why over the road and commercial fleets choose FP Diesel engine components.



AGRICULTURE

Nothing works harder than agricultural equipment. So when you need to service an agricultural engine used in the field, install equally hardworking components: FP Diesel.



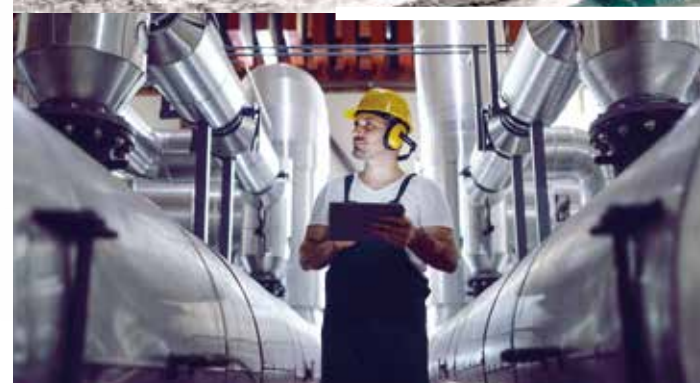
MARINE

Marine technology needs reliable parts to work well in a harsh maritime environment. To make these parts FP Diesel uses the most appropriate materials and techniques to keep them in optimal condition. This helps marine equipment work better and last longer.



ENERGY PRODUCTION

We are committed to innovation and quality, continually improving our manufacturing processes and product designs. This dedication ensures that FP Diesel components meet the stringent demands of modern equipment, which are critical for efficient energy production and management.



发电

FP Diesel 产品经过精密设计和测试，不仅满足严苛的规格要求，而且能够承受恶劣工作环境，无论在哪里都能展现出卓越的产品性能。

建筑与采矿

从工作艇、船载发电机组到泵机，FP Diesel 发动机产品为复杂环境下的长期运行器械而精心打造。

想要实现设备投资价值最大化，就要找到理想的产品。因此公路运输和商用车队纷纷选择FP Diesel发动机产品。

农业

农业设备一直以来都保持高强度运作，因此，面对农用发动机的维护需求，唯有同样可靠耐用的FP Diesel 才能与之匹配，并为您的生产作业带来显著提升与更多收益。

海事

海事技术需要可靠的产品才能在复杂恶劣的海洋环境中良好运行。FP Diesel 凭借优质材料及先进工艺制造技术，保障产品始终处于理想状态。这有助于提高海洋设备工作效率，并延长了设备使用寿命。

能源生产

我们致力于创新与品质，不断提升制造工艺与产品设计。从而确保FP Diesel 产品满足现代设备的严格要求，这对高效的能源生产和管理至关重要。

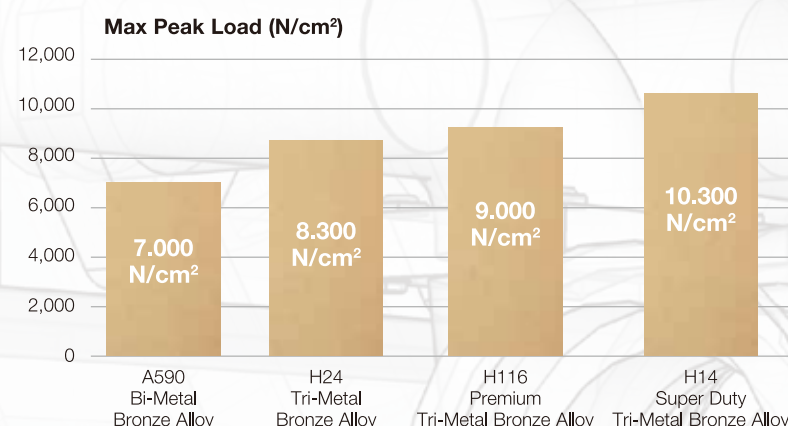


BEARINGS

Rebuilders can trust FP Diesel engine bearings to ensure performance and longevity of their engines.

Advanced technologies, suited to specific performance characteristics and incorporating OE equivalent or better metallurgies and design, are matched to address specific performance requirements.

Bearing materials vary widely in terms of rate of wear and fatigue strength, which is crucial in engines operating under high loads and considerable heat. DRiV has performed the research necessary to identify the right solution for each engine.



IN-FRAME & OVERHAUL KITS

FP Diesel engine kits make it simple to extend an engine's life. Whether you are performing a complete overhaul or an in-frame repair, FP Diesel allows you to select a kit tailored to the job at hand. Overhaul kits give you every component, each precision-engineered and precision-matched for the job.

This comprehensive program also provides concise application information, a full range of bearing oversizes and undersizes, and complete overhaul kits that include full gasket sets. Plus FP Diesel quality throughout.

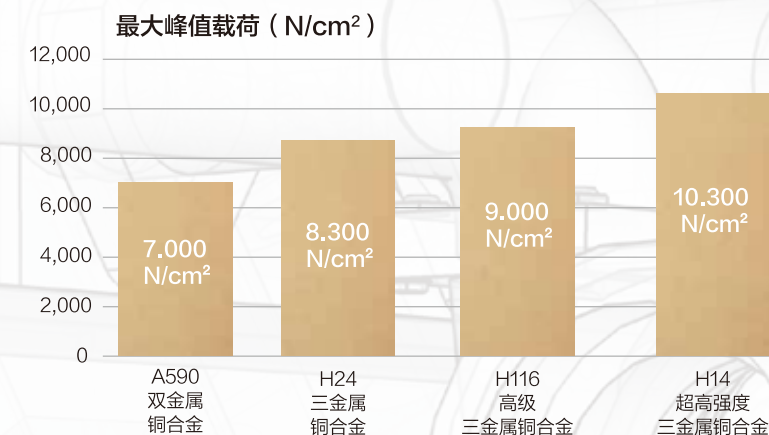


发动机轴瓦：连杆瓦和曲轴瓦

发动机专业维修人员可以信赖FP Diesel 的发动机轴瓦，能够确保发动机的高性能和耐久性。

我们采用先进技术，针对具体性能特点，结合等同或优于原厂的金属材料 and 产品设计，满足特定性能要求。

发动机轴瓦材料在磨损速率和疲劳强度方面差异很大，这在高负荷和高温环境下运行的发动机中至关重要。德雷威的专业研发针对每款发动机推出合适的解决方案。



发动机件和密封件大修包

FP Diesel 发动机组件能够轻松延长发动机使用寿命。无论您是进行发动机大修还是车架上修理，FP Diesel 都有与之匹配的大修包。大修包包含所有部件，均经过精密设计和适配，确保产品高效运作。

这一组合套件还提供了清晰的使用指南、涵盖了不同尺寸（包括超大和偏小尺寸）发动机件，以及包含全套垫片组件的大修包，为你带来FP Diesel 全方位高品质保障和服务。



FP DIESEL® PISTONS



Articulated pistons

POWERFORGED® pistons

FP Diesel pistons are proven to be a better and more efficient replacement piston in today's hardest working engines.

FP Diesel Articulated and POWERFORGED® pistons feature advanced engineering innovations that vastly improves cooling by circulating fresh oil non-stop to the piston crown; proprietary high-strength materials, and exclusive manganese coatings that improve performance and reduce scuffing.

FP DIESEL® 活塞



铰接式活塞

POWERFORGED®活塞

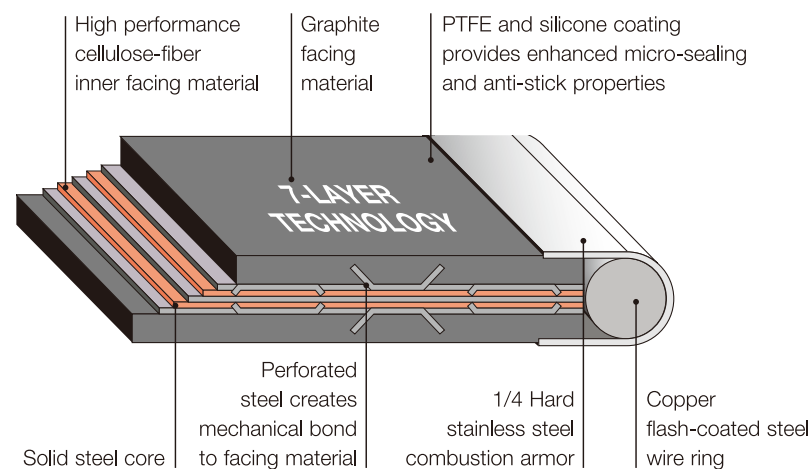
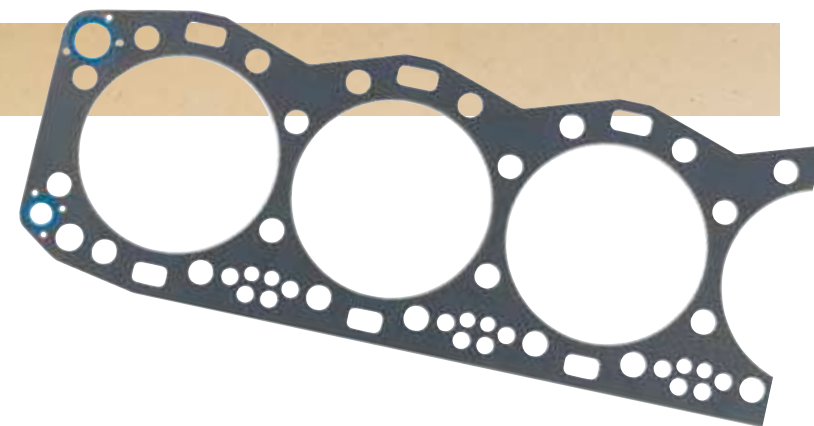
FP Diesel 活塞被认为是能确保其功能卓越稳定的优质活塞。

FP Diesel 铰接式活塞和 POWERFORGED® 活塞采用创新技术，通过持续不断地将低温机油循环到活塞顶部从而大幅改善冷却性能；专有的高强度材料和锰涂层能在提升性能的同时减少磨损。

ML7™ HEAD GASKETS

The FP Diesel ML7™ gasket's innovative multi-layer-core design enables it to withstand significantly higher combustion pressures and temperatures, and to accommodate vertical and lateral motion between the block and cylinder head.

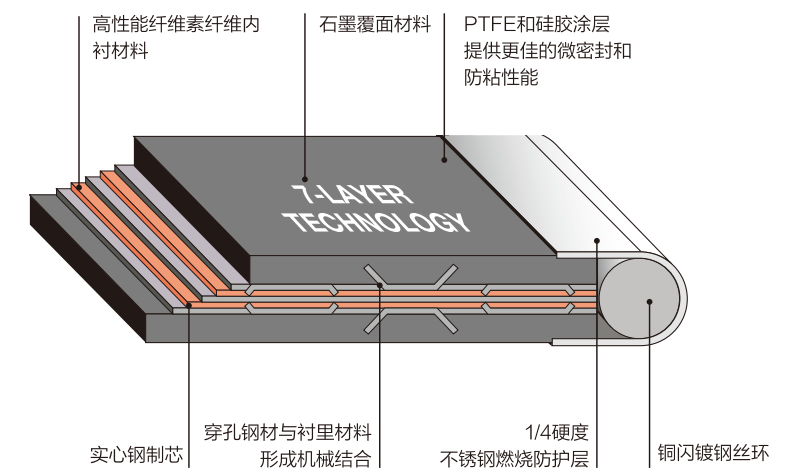
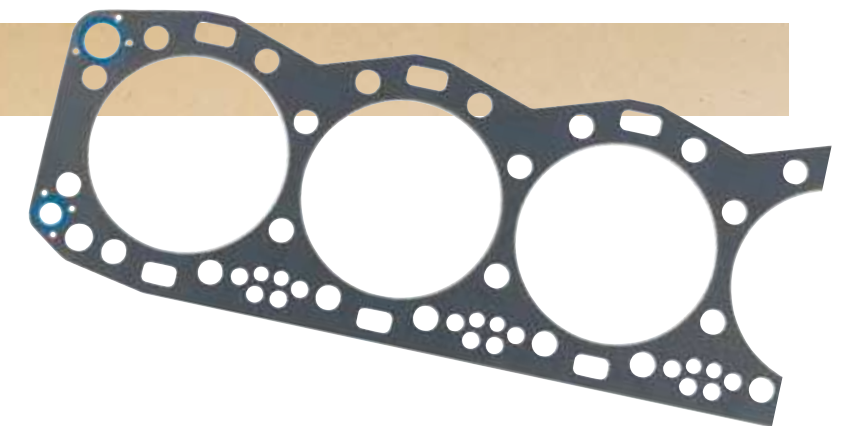
The seven-layer technology incorporates a steel core, ensuring optimal compressed thickness control and a more solid and durable gasket that eliminates the concerns of repeat sealing issues in high-output applications.



ML7™ 汽缸垫

FP Diesel ML7™ 垫片的创新多层核心设计使其能够承受更高的燃烧压力和温度，并适应缸体与缸盖之间的垂直和横向运动。

七层技术采用钢制缸口环，确保理想的压缩厚度控制，制造出更为坚固耐用的垫片，有效消除高爆压发动机的多重密封风险。



CYLINDER KITS

FP Diesel cylinder kits contain all the parts needed to repair a single cylinder. Each component is designed and manufactured to work together as part of the “Power Cylinder” system.

For the best performance, always install FP Diesel pistons, pin & retainers, liners & -seals and rings together to ensure an optimal fit, form and function.



汽缸套组

FP Diesel 汽缸套件包含修理单个汽缸所需的所有产品。每个部件均作为“Power Cylinder”（动力汽缸）系统一部分设计制造，保障各零件运行配合完好。

为确保理想性能，请始终配套安装FP Diesel活塞、销和活塞销卡簧、衬套、阻水圈及活塞环，以确保卓越的产品匹配和性能。



VALVES AND VALVETRAIN PARTS

Today's emission-compliant engines put added strain on valvetrain components. FP Diesel is a global leader in engine valves, guides and seats, and we have access to the latest specialty alloys needed to survive in this challenging environment.

We offer a complete range of valves and valvetrain parts needed to get cylinder heads back into a top operating condition.



气门与气门传动部件

如今排放合规的发动机对气门传动组件提出了更高要求。FP Diesel 是发动机气门、导管和座圈领域的全球领导者，运用先进的特种合金，应对严苛环境。

我们提供一系列完整的气门和气门传动零件，助力缸盖恢复到理想工作状态。



PISTON RINGS

FP Diesel piston rings are made from a selection of the best materials and coatings, including chrome, plasma, and nitriding.

These improve break-in, reduce scuffing and provide corrosion resistance LKZ-Rings® tapered land oil rings reduce oil consumption and friction.



活塞环

FP Diesel 活塞环采用包括铬、等离子以及氮化工艺在内的一系列优质材料与涂层制造。

这些材料和涂层能够改善磨合过程，减少磨损，卓越耐腐蚀性的LKZ-Rings®锥形油环设计，有效降低机油消耗和摩擦。



CYLINDER LINERS

FP Diesel cylinder liners are manufactured using the best suitable materials for the job. Cast iron, ductile iron and steel are used, and flanges are rolled for increased strength. Induction hardening and nitriding is applied as needed to meet the demands of the application.

Cylinder liner seal rings are critical to performance, and we use high-quality premium polymers formulated to resist heat, corrosion and dynamic forces found in the power cylinder.



We offer a **one-stop-shop** for engine parts through our respected AE®, Glyco®, Goetze®, Nüral® and Payen® brands.

With our FP Diesel® programme, we are proud to say that this expertise extends to **heavy-duty engines**, enabling us to offer a complete portfolio of products to meet the needs of engine rebuilders.

DRiV (Tenneco) offers **market-leading coverage and OE technologies**, supported by our dedicated **New Parts Introduction (NPI)** programme.

Our entire range continues to evolve and improve, maintaining our reputation for quality parts.

ENGINE
EXPERTISE



汽缸套

FP Diesel 汽缸套采用铸铁、球墨铸铁和钢材等合适的优质材料制造。法兰经过滚压处理增加强度。根据应用需求，汽缸套还进行高频淬火和渗氮处理，满足应用要求。

缸套密封阻水圈对性能至关重要，我们选用高品质的高端聚合物，具备耐热、耐腐蚀和抗冲击力冲击的特性，适应动力气缸的工作环境。



依托AE®、Glyco®、Goetze®、Nüral®和Payen®等知名品牌，我们为发动机产品提供**一站式服务**。

凭借FP Diesel®产品系列，我们自豪地将这一专业技术延伸至**重型商用车发动机领域**，提供完整的产品组合，满足发动机维修需求。

DRiV **市场覆盖率先**，拥有**原厂技术**，以及独有的**新品引入（NPI）计划**支持。

我们所有产品线持续开发和改进，始终在优质售后汽配领域保持良好声誉。

ENGINE
EXPERTISE





件件硬实力，
才敢硬碰硬

可替换 康明斯 零件

为 6BT, 6CT, K19, K38, M11, NT855, QSB6.7 发动机系列提供部件。

垫片类	6BT	6CT	K19	K38	M11	NT855	QSB6.7
发动机大修包	√	√	√	○	√	√	○
气缸垫片组件	√	√	○	√	○	√	○
燃油系统垫片组件	○	√	○	○	○	√	○
冷却系统垫片	○	○	○	√	○	√	○
EGR阀垫片与其他垫片	○	○	○	○	○	○	○
涡轮增压器垫片	○	○	○	○	○	√	○
气门室盖垫片组件	○	○	○	○	○	√	√
飞轮壳和盖垫片	○	○	○	○	○	○	○
排气歧管垫片	○	○	○	√	○	○	○
发动机件相关	6BT	6CT	K19	K38	M11	NT855	QSB6.7
曲轴，油泵，水泵及其他附件	√	√	√	○	√	√	√
气门相关套件	○	√	○	○	√	√	○
活塞环套件	○	√	√	○	√	√	√
活塞与相关套件	√	√	○	○	√	√	√
气缸衬套	○	√	√	○	○	√	○
发动机轴瓦	√	√	○	○	○	○	○
发动机修理套件	○	√	○	○	√	√	○
气缸垫片组件	○	○	○	○	○	○	○
密封类	6BT	6CT	K19	K38	M11	NT855	QSB6.7
O型圈	○	√	○	√	√	√	○
曲轴油封，气门油封	○	√	√	○	○	○	○
燃油泵系统	6BT	6CT	K19	K38	M11	NT855	QSB6.7
燃油泵	○	○	○	○	√	○	○
喷油嘴	○	○	○	○	○	√	○
喷油器套筒	○	○	○	○	○	○	○

注：√：有货；○：待开发

可替换 卡特彼勒 零件

为 3306, 3406, 3408, 3512, 3516, C7, C9, C13, C15, C18 发动机系列提供部件。

垫片类	3306	3406	3408	3512	3516	C7	C9	C13	C15	C18
发动机大修包	√	√	√	√	√	√	√	√	√	√
气缸垫片组件	√	√	√	√	√	○	√	○	√	√
燃油系统垫片组件	√	√	√	√	√	√	√	√	√	√
冷却系统垫片	√	√	√	√	○	√	√	√	√	√
EGR阀垫片与其他垫片	√	○	○	○	√	√	√	○	√	√
涡轮增压器垫片	√	√	√	√	○	√	√	√	√	√
气门室盖垫片组件	√	√	○	○	○	○	√	√	√	○
飞轮壳和盖垫片	√	√	√	○	○	○	√	√	○	√
排气歧管垫片	○	√	○	○	○	○	○	√	○	√
发动机件相关	3306	3406	3408	3512	3516	C7	C9	C13	C15	C18
曲轴，油泵，水泵及其他附件	√	√	√	√	○	√	√	√	√	√
气门相关套件	√	√	√	√	√	√	√	√	√	√
活塞环套件	√	√	○	○	○	√	√	√	√	√
活塞与相关套件	√	√	√	○	○	√	√	√	√	√
气缸衬套	√	√	○	○	○	○	√	√	√	√
发动机轴瓦	○	√	○	○	○	√	√	√	√	○
发动机修理套件	√	√	√	○	○	○	○	○	○	○
气缸垫片组件	○	○	○	○	√	○	○	○	○	○
密封类	3306	3406	3408	3512	3516	C7	C9	C13	C15	C18
O型圈	√	○	√	○	○	√	√	√	√	√
曲轴油封，气门油封	○	√	○	○	○	√	√	√	√	√
燃油泵系统	3306	3406	3408	3512	3516	C7	C9	C13	C15	C18
燃油泵	○	√	○	○	○	○	○	√	√	√
喷油嘴	√	√	○	√	√	√	○	○	○	○
喷油器套筒	○	√	√	○	○	○	○	√	√	√

注：√：有货；○：待开发





为您的发动机 提供一站式解决方案



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上海德雷威汽车工业有限公司
客服电话: 400-0550-929
德雷威官网: DRiV.com

