



SPECIAL APPLICATIONS
NEED SPECIAL KNOW-HOW

**ENGINES AND
SYSTEMS MADE
IN GERMANY**

Farymann Diesel



FARYMANN DIESEL ENGINES AND SYSTEMS ENGINEERING

Farymann Diesel Engines GmbH is one of the world's leading manufacturers of small single cylinder diesel engines for special markets. During a history spanning more than 65 years we have dedicated ourselves to the high-performance Farymann diesel engines for industrial, marine and specialized applications. Reliability and flexible application options is our force and drive us forward. Our single cylinder diesel engines are used in various applications all over the world. Here they drive for instance compactors, water pumps, compressors and generators. For commercial applications such as small fishing boats and yachts the top selling products includes the 18W propulsion engine "Yellow River Star" which is unique and direct sea water cooled. In the defense sector, Farymann's 43 series have secured its undisputed leadership position for many years. Apart from the small diesel engines, the company's product range includes complete systems which can be tailored to the customer's individual requirements. Special applications are our focus, designed to create today the solutions our customers are going to want tomorrow.

Our mission is to ensure our customer's success through value-added power solutions, supported by our customer service and high quality products. Close proximity to our customers all over the world is a paramount consideration. Our worldwide sales and service network, with local partners ensures individualized, professionally expert support. We are currently represented in more as 60 countries. Since June 2014 we have established our own subsidiary "Farymann Diesel Asia" in the Republic of Korea. Farymann Diesel Asia as our main distributor for the Asian market is supporting with an own service and application team all our customers and OEM's in Asia.



Andreas Stabel, Managing Director
Farymann International



RELIABLE POWER SOLUTIONS ALL OVER THE WORLD

Our world depends daily on reliable power. Farymann Diesel provides amongst others power for construction, agriculture, forestry, and telecommunication. For over 65 years Farymann Diesel has been supplying all kinds of reliable power for customers around the world.

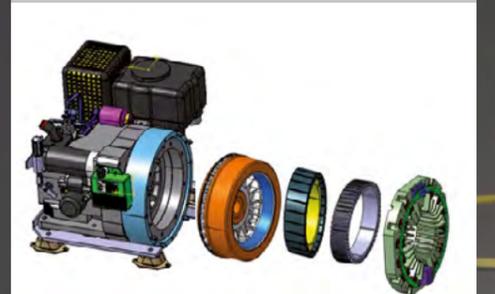
Homes, farming and industrial facilities are using our generating sets.

Farymann Diesel is committed to product improvements that save fuel, time and money.

We are offering our customers tailor-made solutions for their special needs. Special applications are our major business. Our engineers develop, design and implement solutions for our customer needs.



- GENERATING SETS
- TELECOMMUNICATION UNITS
- AUXILIARY POWER UNITS (APU'S)
- COMBINED HEAT AND POWER UNITS (CHP)
- SPECIAL APPLICATIONS
- TAYLOR-MADE SOLUTIONS



GENERATING SETS

Farymann Diesel provides reliable power for a wide range of applications wherever and whenever it's required.



- FRESH WATER PUMPS
- SEA WATER PUMPS
- TRASH PUMPS
- FIRE PUMPS
- TAYLOR-MADE WATER PUMP SETS



WHEN DOWNTIME IS NOT AN OPTION

Equipped with our 18D or 43F air-cooled diesel engine for stand-alone operation, our water pumps will work on any site.

Our water pumps are designed for industrial and agricultural applications, providing efficient and long life operation.

Reliable pumping is also a question of using the right size of water pump. Our systems knowledge and expertise in water and waste water pump applications ensure your operational security and give you more time to focus on your core business.

The Farymann Diesel water pumps can be customized by using a wide range of accessories.

When the job cannot wait, Farymann Diesel engines start when you need them, work reliably in tough conditions and help you to make sure jobs are completed on schedule.



WATER PUMPS

Reliability and efficiency – features that make Farymann Diesel products stand strong.





BACK TO OUR ROOTS



Introduction of our Marine engines

Farymann Diesel Marine engines are specified for sailing and fishing boats where maximum performance and reliability is required.

All our Marine engines are renowned for their first quality and durability and are designed for efficiency, easy control and minimal service.

Our small Marine diesel engines offer a choice to match the needs of customers for different applications.

In response to the great demand from our customers we will launch the 43W Marine propulsion engine in spring 2015.

The new propulsion engine will come in the power range between 8 – 11 kW.

We will also launch in spring 2015 our own Marine generating set with the 18W engine.



RE-START OF PRODUCTION FROM THE 32WX MARINE ENGINE (7.7 KW / 10 HP)



32 WX available December 2015



FARYMANN MARINE

Powered by customer needs.

- MARINE PROPULSION ENGINES
- MARINE GENERATING SETS
- TAYLOR-MADE SOLUTIONS

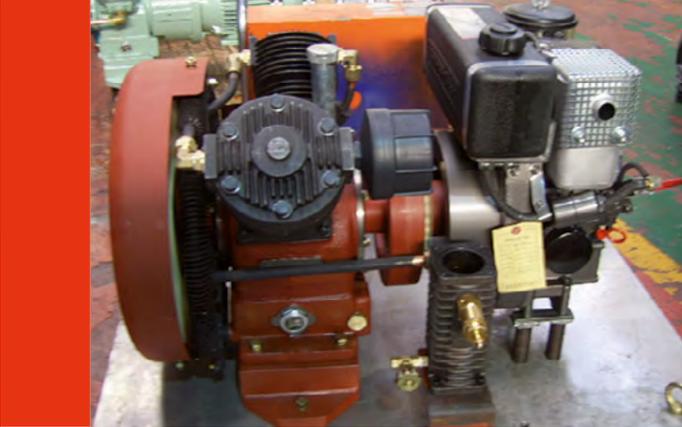


SPECIAL APPLICATIONS ARE OUR DAILY BUSINESS

CUSTOMIZED SOLUTIONS FOR HYDRAULIC SYSTEMS

- HYDRAULIC UNITS
- AIR COMPRESSORS

TAILER MADE SOLUTIONS



Mobile air compressors with Farymann Diesel engines feature a specially designed energy-saving.

The turnkey from compressors powered by Farymann Diesel engines combine exceptional efficiency and cost-effective performance.

The perfect choice for workshops and smaller production facilities giving advantages of low maintenance costs, durability and perfectly matched components which ensure years of efficient performance.

Farymann Diesel engines in hydraulic drive trains power up hydraulic circuits in various applications.

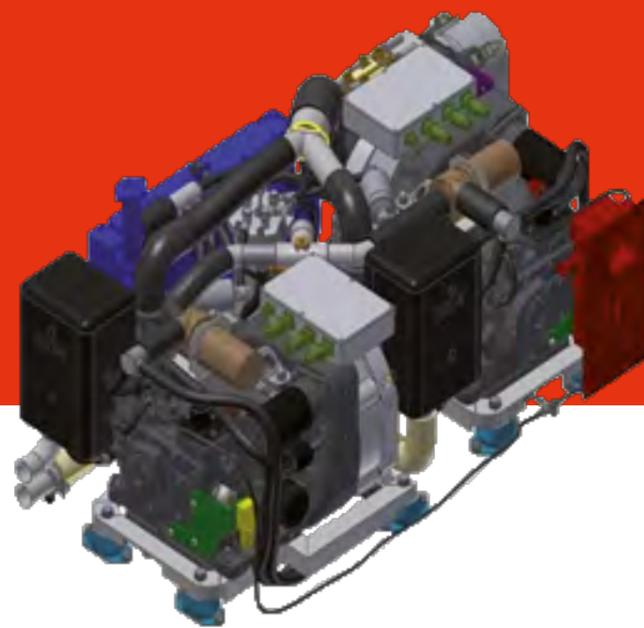
Our application engineers are ready to assist you in selecting the options that best fit to our engines and your needs for hydraulic drive systems.

In many projects, our customers are invited in our Technology Workshops, where our engineers will work closely with them, to understand their challenges and requirements.



FARYMANN HAS THE POWER YOU NEED

EVERYWHERE YOU ARE – EVERYWHERE YOU NEED



Beginning with the foundation of Farymann Diesel in 1947, the main strategy for the development of new products has been to serve niche markets, with highly reliable state-of-the-art small diesel engines. Our flexible approach in providing tailor-made solutions to our customers is one of our key characteristics.

Farymann Diesel is one of the most famous diesel engine manufacturers in the defense industry. Under the brand Farymann Diesel, our company produces and sells single cylinder diesel engines specifically designed for use in military and commercial applications.

Farymann has developed a wide range of powerful engines for Auxiliary Power Units (APU's) for external and internal installation on military and commercial vehicles.

Farymann engines in the power range between 3.0–12 kW provide power supply for various military / commercial vehicles continuously and constantly when the main power supply of the vehicles stops –

without using the main engine. Our engines are reliable even under difficult environmental operation conditions. The engines are designed to provide reliable power and best solutions for space and weight. The most common uses for the engine include the powering of APU systems, pump drives, battery chargers and compressors, in a power range from 3.0 to 12 kW. That power range is covered by both 18 and 43 series direct injection diesel engines. Possible customer requirements, like high rate of inclination (31°), improved cold start capability (-32°C) and hand start via a crank handle are all available in the standard product. These engines are compact with high power-weight ratios and a multi-fuel capability.

SPECIAL APPLICATIONS

Farymann has the power you need. Everywhere you are – everywhere you need.

- AID ORGANISATIONS
- MILITARY
- TELECOMMUNICATIONS
- SPECIAL APPLICATIONS





15 D / 18 D



43 F



15 W / 18 W



43 W

Engine Type		15 D / 18 D	43 F	15 W / 18 W	43 W
Configuration		vertical	horizontal	vertical	horizontal
Cylinders		1	1	1	1
Cooling		air	air	water	water
Max. output IFN-ISO	kW (HP)	3.9 (5.3) / 4.7 (6.5)	11.0 (15.0)	4.3 (5.9) / 5.2 (7.1)	11.0 (15.0)
ICFN-ISO	kW (HP)	3.5 (4.8) / 4.2 (5.7)	9.9 (13.5)	3.9 (5.3) / 4.7 (6.4)	9.9 (13.5)
Max. speed	min ⁻¹	3600	3000	3600	3000
Max. torque	Nm (min ⁻¹)	11.5 (2500) / 13.6 (2500)	40.6 (2300)	13.0 (2500) / 15.3 (2500)	40.1 (2100)
Bore	mm	82	95	82	95
Stroke	mm	55	100	55	100
Displacement	cm ³	290	708	290	708
Mean piston speed	m/s	6.6 / 3600	10 / 3000	6.6 / 3600	10 / 3000
Compression ratio		1:20	1:19	1:20	1:19.5
Oil sump capacity	l	1	2.1	1	2.1
Oil consumption	g/kWh	1	1	1	1
Tank capacity	l	optional 3.9 / 4.0	7.5	/	7.5
Max. inclination		permanent 15°	permanent 15°	permanent 15°	permanent 15°
Dry weight	kg	41	92	39	97

IFN-ISO
Blocked power output for intermittent loads.

ICFN-ISO
Standard rating for constant speed level and constant load level. For applications with continuous operation beyond the limits please contact the manufacturer.

DERATING
Derating 1% approx. every 100 m altitude and 2% approx. every 5°C above 20°C. Ratings certified within tolerance of 5% after running-in and operation with muffler and standard air cleaner.

The data given in this brochure is only for information. Farymann Diesel Engines GmbH reserves the right to amend the specification without obligation or liability.

ONLY ORIGINAL SPARE PARTS ENSURE RELIABILITY

There is a genuine difference in the performance, reliability, durability and value of engine parts. It is well documented that non-original parts can be cause of major failure, the financial and operational impact of which can cost a business heavily.

Only original Farymann parts avoid this risk and give a long-lasting peace from a supplier you can trust.

All Farymann parts and components are guaranteed by detailed identification to ensure that they meet the latest design specification and undergo rigorous inspection and quality control.

Original spare parts from Farymann represent the safest and most financially effective long

term solution, helping to maintain your operations and protecting your investment. When contacting your Farymann Diesel distributor or service partner, you can rely on trained and experienced parts specialists. You will get the right spare parts and components as well as the best support and advice.





Worldwide Customer Service and Support



Farymann Diesel has a strong service and distribution network across the world. Our distribution network provides sales and full aftermarket support for the complete range of our engines and generating sets. This includes the provision of service, repairs and maintenance and the supply of spare parts and accessories.

Farymann Diesel delivers local support through a network of modern, fully equipped Service Partners. Our aim is to provide to our customers a world-class service support that is fast and responsive, flexible and convenient, and minimizes equipment downtime and costs.

With our global service network, we are able to provide our customers with comprehensive sales and service support wherever they may be.

Our main distributor in the Republic of Korea ensures with a team of mobile service technicians and engineers a full after sales support for all our customers in ASIA.

FARYMANN DIESEL ENGINES GMBH



Industriestr. 19
68623 Lampertheim
Germany
Fon +49 6206 507 0
Fax +49 6206 507 111
info@farymann.de
www.farymann.de

FARYMANN DIESEL ASIA



666-153, Bongam-Dong
Gyeongnam, 630-803 / MasanHoewon-Gu,
Chanwon City (Masan Free Trade Zone 3)
Fon +82 55 299 6166 / +82 55 299 6169
Fax +82 55 297 9115
info@farymannasia.com
www.farymannasia.com