



MOBILE SOLUTIONS

We put your ideas
on the road



Save gas and protect the environment



your high pressure solution

COMPANY PROFILE

Leobersdorfer Maschinenfabrik

LMF is a renowned global player and the leading manufacturer of innovative and tailor-made high pressure compressor solutions. More than 175 years of technical ingenuity have provided the Austrian company with a solid foundation as first mover: As leading engineers of their time and LMF employees, Rudolf Diesel, who developed diesel engines for LMF, and Viktor Kaplan, the inventor of the Kaplan water-turbine, paved the way for technological excellence.

Production of reciprocating machines started at the turn of the 20th century. Over the years the company asserted its role as a pioneer of high pressure compressor solutions, with many groundbreaking products launched and benchmarks set for numerous sectors of industry.

High quality engineered to order

With over 175 years of experience, LMF guarantees customers individual tailor-made solutions and the highest quality. From consulting and engineering to production and service, LMF offers products that meet the exact needs of customers as well as stringent international standards.

LMF offers the most reliable solutions for today's challenging demand for energy – whether it is hydrogen, biomethane or other alternative fuels. Moreover, solutions are provided for the oil and gas sector as well as for the chemical and petrochemical industry.

Applications and Business Areas

- ⊙ Alternative Energy
- ⊙ Industrial Applications
- ⊙ Midstream Tailor-Made
- ⊙ Oil & Gas
- ⊙ PET
- ⊙ Pipeline Evacuation
- ⊙ Seismic Research

Headquarters

Leobersdorf, Austria



Reliable

We keep our promises.



Innovative

Our innovative solutions set standards for tomorrow's compressor technology.



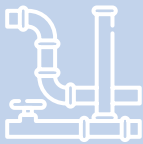
Sustainable

With our solutions, we lead the way to zero emissions.

APPLICATIONS FOR EVERY INDUSTRY

Since the 1950s, LMF experts have put customers' ideas on the road. LMF's mobile compressor solutions are designed to tackle a wide array of tasks across different industries, offering unparalleled flexibility and superior performance. These units are not confined to conven-

tional uses; their design allows for extensive customization, enabling them to be deployed in innovative and industry-specific scenarios. The following examples highlight just a fraction of what our compressors can achieve:



Pipeline maintenance and evacuation

Safely evacuate gas from pipelines during maintenance, repair, or emergencies.



Leakage gas compression

Compress and manage gas leaks effectively, minimizing environmental impact.



Interim gas stations

Set up temporary or semi-permanent gas stations using our mobile compressor solutions to ensure uninterrupted service during maintenance or expansion.



Well stimulation

Enhance oil and gas extraction by using our compressors to increase well pressure.



Pressure testing

Test the integrity of pipelines, vessels, and other critical infrastructure with high pressure capabilities.



WE PUT YOUR IDEAS ON THE ROAD

LMF's mobile compressor solutions are fully automated and energy-independent, designed to be easily transported and deployed wherever they are needed. Unlike stationary systems, our mobile units offer unmatched flexibility, making them essential for operations that demand rapid and efficient responses in a variety of settings.

Hydrogen Today's solution for tomorrow

LMF's mobile evacuation units are engineered to meet the demands of tomorrow's natural gas networks. They are already capable of handling hydrogen-gas mixtures containing 5% to 20% hydrogen, ensuring compatibility with the shift towards cleaner energy sources.

With over 40 years of expertise in emission-free gas compressors, LMF is once again leading the charge in innovation. We developed mobile solutions specifically designed to evacuate pipelines containing up to 100% hydrogen, positioning LMF as a key player in the future of sustainable energy infrastructure.

Benefits of a LMF mobile compressor solution

Tailor-made flexibility

Our compressors are engineered to adapt to a wide spectrum of applications, offering the right solution for every challenge.

Unmatched reliability

Built to endure the most demanding conditions – from extreme temperatures to remote, harsh environments – LMF compressors consistently deliver peak performance.

Cost efficiency

Minimize downtime and operational costs with our mobile compressor solutions, which are ready for rapid deployment and require minimal setup.

Environmental responsibility

LMF's mobile compressor solutions meet and exceed EU standards, offering eco-friendly solutions that set a new benchmark for sustainability.

SAVE GAS AND PROTECT THE ENVIRONMENT

In today's industrial landscape, efficiency and sustainability are key factors that can define a company's success. For those involved in pipeline maintenance, gas transportation, or other high pressure operations, the right tools aren't just about getting the job done – they're about maximizing resources and minimizing waste. This is where LMF's mobile compressor solutions come in, offering both financial and environmental benefits.

Stop leaking profits

Imagine you're performing routine maintenance on a gas pipeline. Without the right equipment, valuable natural gas can escape into the atmosphere. This not only impacts the environment but also means lost revenue – every cubic meter of gas lost is money wasted. But with LMF's mobile compressors, this is a problem you can avoid.

Our compressors retain up to 99% of natural gas during pipeline evacuations, repairs, and maintenance. This translates into real savings, as your resources are preserved rather than lost to the air.

Environmental Responsibility

By choosing LMF's mobile compressor solutions, you're not only saving gas and reducing costs, but you're also actively contributing to environmental protection. LMF compressors go beyond current regulations, including EU standards that prohibit venting natural gas, ensuring that your business is not only equipped with cutting-edge technology but also compliant with future industry requirements.

With LMF's mobile compressor solutions you're simultaneously cutting costs and protecting the environment. By preserving valuable resources and reducing emissions, you're setting your business up for long-term efficiency while staying ahead of evolving regulations.

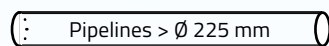
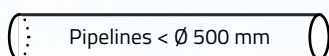
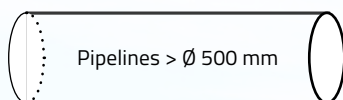
Contact us today to learn how LMF can help your business thrive while protecting the environment.





PIPELINE MAINTENANCE AND EVACUATION

LMF is the global market leader in fully automated, energy-independent compressors for emission-free evacuation of natural gas from pipelines during maintenance and repair. Ever since their launch in 2005, LMF has delivered more than 60 mobile units on all-terrain trucks to transmission system operators all over the world. LMF mobile compressor units are the most compact and most powerful available on the market. What's more, with a total weight of less than 40t even LMF's largest evacuation units – P-Pack 750 – are absolutely roadworthy, requiring no additional permits.



Save gas and protect the environment

With a track record several dozen different emission-free mobile evacuation units in use, LMF provides the most eco-friendly solution:

Tried and tested all over the world, LMF P-Packs prevent harmful emissions of natural gas.

Depending on the size of the unit, LMF P-Packs reliably save up to 99% of the natural gas during maintenance and repairs.

LMF's technically sophisticated mobile solutions exceed the EU 2019/942 regulation, which prohibits venting of natural gas.

Key data

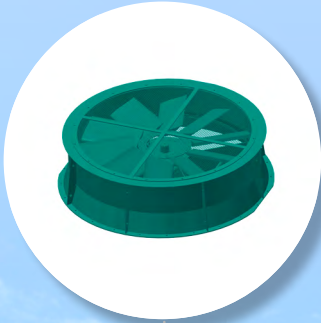
Power range up to 750 kW

Pressures range up to 110 barg

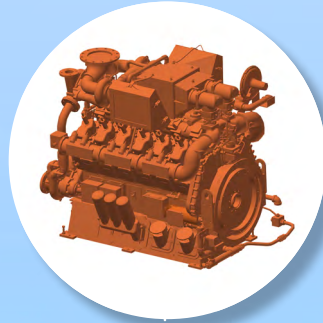
Total weight <40t



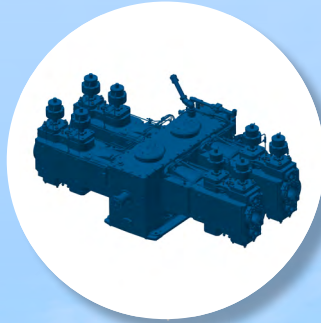
Cooling System



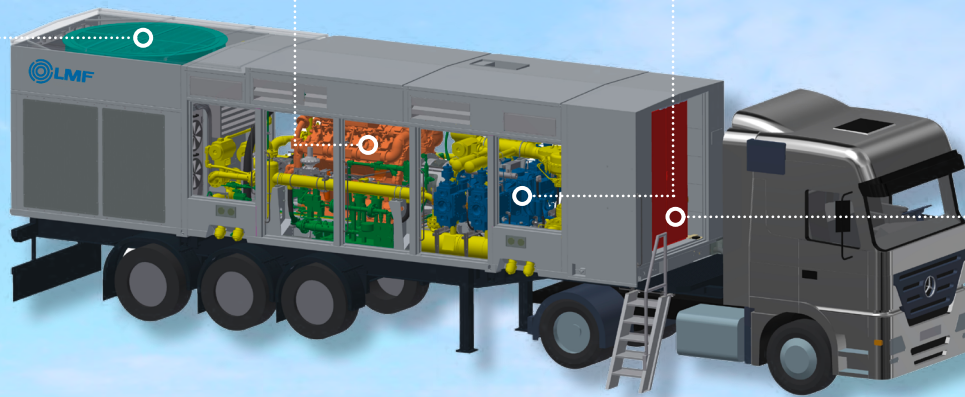
Gas Engine



LMF Compressor



Control Panel



**LMF mobile pipeline
evacuation units in action**



TAILOR-MADE SOLUTIONS FOR EVERY OPERATIONAL NEED



P-Pack 750

LMF compressor HS604, rated power 600 kW

Gas engine, 1400 rpm, 750 kW

Electric power supply via main engine: 24V

Cooling fan driven by main engine via hydraulic

Suitability for -40°C to +40°C

Unit weight approx. 26,5 to

Overall dimension 10,3 m x 2,55 m x 2,4 m



P-Pack 600

LMF compressor HS604, rated power 520 kW

Gas engine, 1400 - 1800 rpm, 600 kW

Electric power supply via main engine: 24V

Cooling fan driven by main engine via hydraulic

Suitability for -40°C to +40°C

Unit weight approx. 27,0 to

Overall dimension 10,2 m x 2,55 m x 2,57 m



P-Pack 355

LMF compressor HS302, rated power 300 kW

Gas engine, 1600 rpm, 355 kW

Electric power supply via main engine: 24V

Cooling fan driven by main engine via hydraulic

Suitability for -40°C to +40°C

Unit weight approx. 22 to

Overall dimension 9,1 m x 2,55 m x 2,57 m

LMF offers a full range of mobile solutions tailored to various applications, providing optimal performance whether you need a large, powerful unit for extensive operations or a compact agile solution for smaller tasks.



P-Pack 100

LMF compressor HS102, rated power 100 kW

Gas engine, 1500 rpm, 150 kW

Electric power supply via main engine: 24V & 230V

Cooling fan direct driven by main engine

Suitability for -40°C to +40°C

Unit weight approx. 15 to

Overall dimension 6,0 m x 2,55 m x 2,59 m



P-Pack 75

LMF compressor V17GN, rated power 65 kW

Gas engine, 1500 rpm, 91 kW

Electric power supply via main engine: 12V & 24V

Cooling fan direct driven by main engine

Suitability for -40°C to +40°C

Unit weight approx. 5,0 to

Overall dimension 4,5 m x 2,2 m x 2,2 m



P-Pack 40

LMF compressor V16GN, rated power 25 kW

Electric motor, 1500 rpm

Electric power supply via plug: 63 A, 400 V, 50 Hz

Cooling fan driven by electric motor

Suitability for -40°C to +40°C

Unit weight approx. 2,2 to

Overall dimension 3,25 m x 1,63 m x 1,62 m

TAILOR-MADE ENGINEERING

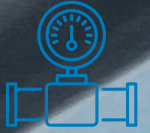


Tailor-made engineering for unique applications

The customizable nature of LMF's mobile compressor solutions means they can be engineered to meet specific operational requirements, regardless of complexity. Whether your application involves unconventional gas recovery, on-site gas liquefaction, or temporary energy solutions in remote locations, our compressors are adaptable to any scenario. The applications are just suggestions – our engineering team is ready to develop tailored solutions to meet your specific requirements.



PRESSURE TESTING



LMF offers robust mobile compressor solutions designed for pipeline pressure testing, even in the most demanding environments. Each unit is fully self-sufficient, equipped with its own generator and control system, allowing it to operate independently of external power sources.

During testing, the pipeline section is isolated using interception valves at both ends. The compressor is then connected to this isolated section and can be activated remotely from a central operator station. The system automatically pressurizes the pipeline and stops once the target pressure is reached. For multiple-section tests, the compressor can

transfer air from one section to another, LMF's compound compressors maximize capacity and pressure output while minimizing weight and size. Utilizing both a high-speed rotating screw compressor and a reciprocating piston compressor, these units are directly connected to a prime mover – either diesel or electric – ensuring optimal performance across all applications.

Key data

Capacity ranges up to 40 m³/min FAD

Pressures range up to 400 barg

Total weight <40t

WELL STIMULATION



Well stimulation units are essential for boosting oil and gas production efficiency. For operators seeking to optimize production, LMF's well stimulation units offer reliable, high-performance solutions tailored to meet your unique needs.

Increasing well production with EOR

Natural gas is pumped into the well to raise internal pressure, boosting production rates.

Enhancing Oil Lifting Efficiency

Natural gas is compressed into the annular space around the drilling tube which increases the pressure as well as the rate of lift in the riser tube.

Pumping gas into underground storage reservoirs

Mobile compressors ensure precise pressure control, helping determine if gas is efficiently retained or lost in storage.

Deliquefying gas wells

Compressed gas injects foam-based additives or surfactant fluids into the well, removing liquids that hinder gas flow.

Testing for leaks

Compressed gas is used to pressurize and test pipelines, connections, and tubes for potential leaks.

Transporting gas

Mobile compressors maintain the necessary pressure and flow rate for efficient gas transportation through pipelines.

Key data

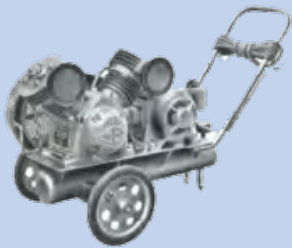
Power range up to 750 kW

Pressures range up to 400 barg

Total weight <40t

OUR MOBILE HISTORY

Back in the 1950s, LMF launched the first mobile units building on decades of experience in developing solutions for applications such as drilling and pipeline testing. In 2005, LMF introduced the innovative P-Pack 750, a roadworthy mobile evacuation unit weighing less than 40 tons, powered by a 750 kW gas engine and an LMF HS604 boxer compressor (600 kW and 4 cylinders). This innovation set new standards in mobile compressor technology, leading to the serial production for renowned customers and to the development of small and medium-sized units:



1952

Launch of the mobile tire inflator "Goliath IV"



1978

Development of the first mobile pipeline testing equipment, capable of generating pressures up to 300 bara

2005

First presentation of LMF's mobile pipeline evacuation units at a gas conference

DEFINING THE STANDARD SINCE THE 1950S

1956

Introduction of mobile compressors for drilling and pneumatic hammer applications

1986

Standardization of mobile pipeline testing equipment featuring the innovative compound unit system based on LMF seismic compressors

2000

Delivery of mobile nitrogen generation units compressing up to 350 barg



2015

Delivery of the first tailor-made mobile compressor unit combining well stimulation, pipeline gas evacuation, and pipeline testing applications

2020

First delivery of two P-Pack 40 units

2023

Successful delivery of four P-Pack 100 units to four different Transmission System Operators (TSOs)

2009

Introduction of the P-Pack 750

2018

20 P-Pack 750 units put on the road

More milestones ahead

2022

Launch of the first P-Pack 355 unit



SPARE PARTS & AFTER SALES SERVICE

Service at LMF comprises more than just maintenance and repair. We made it our business to provide our customers exceptional services and deliver them promptly. Our After Sales specialists go the extra mile to find the best solutions for every client's needs.

- ⦿ Installation and Start-up
- ⦿ Regular Maintenance
- ⦿ Upgrades and Modifications
- ⦿ Service Agreements
- ⦿ Energy Consulting
- ⦿ Condition Monitoring
- ⦿ Spare Parts
- ⦿ Refurbishing of Components
- ⦿ Analysis
- ⦿ Engineering Studies
- ⦿ Troubleshooting
- ⦿ Inspection
- ⦿ Diagnosis
- ⦿ Technical Consulting
- ⦿ Revamps



BOOSTING INDUSTRY KNOWLEDGE

As a pioneer in gas compression technology, LMF has long set the benchmark for industry standards. Our commitment to innovation and expertise has made us a global leader, driving advancements in high pressure pipeline evacuations and sustainable practices. To share this wealth of knowledge and continue shaping the future of the industry, LMF initiated the Mobile Gas Compression Conference in 2019. This platform allows professionals from around the world to exchange insights, explore environmental challenges, and collaborate on the development of new, eco-friendly technologies.



Mobile Gas
Compression
Conference

Mobile Systems

The conference has quickly grown into a vital industry event, reflecting LMF's role in pushing the boundaries of gas compression technology and leading the conversation on sustainability.

For more information and to register for our next conference, scan the QR code:



Mobile Gas Compression
Conference 2022 at
LMF Headquarters
in Leobersdorf, Austria

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