



LMF Rotary Screw Air Compressors 11-160kW LX Range



www.lmf.at



ROTARY SCREW
TECHNOLOGY

worldwide compressor technology

Company Profile

COMPANY PROFILE

LMF is an Austrian manufacturer of reciprocating and rotary screw air and gas compressors for industrial and oil and gas industry applications. The LMF LX range of rotary screw compressors offers high efficiency, extreme reliability and ease of operation and maintenance.

LMF has been producing compressors for over 65 years and offers its customers the benefits of the latest developments in design engineering, proven manufacturing methods, full load testing prior to shipment, and superior after sales services.

COMPANY LOCATION

LMF Headquarters in Leobersdorf, Austria.

Leobersdorf is located approx. 30 km south of the capital of Austria, Vienna, and has direct access to the freeways, both to the city of Vienna and to the Vienna International Airport.



Service

- Global service network through factory trained partners
- Genuine LMF spare parts available globally
- Industry leading warranties



Optimized package design

- Low pressure drop
- Top ventilation
- Belt driven and easy to maintain
- Low noise and vibration



Air end technology

The latest high efficiency air end

- The latest high efficiency profile
- Large rotors and low speed design
- High quality bearing, design life more than 100,000 hours
- Low noise
- Low vibration



Profile evolution process



www.lmf.at



worldwide compressor technology

1 Air end

- Large rotors and low speed design
- High quality bearing
- Low noise



2 Motor

- IP54
- High efficiency
- F class insulation, B level temperature rise



3 Control panel

- LCD display
- Phase-sequence protection
- Reverse rotation protection
- Temperature measurement and control
- Automatically adjust the rate of loading and control pressure balance
- Remote and local control function
- RS485 communication



4 Cooling system

- Efficient and low noise fans
- Large capacity oil cooler and after cooler
- Access to clean to maintain peak cooling



5 Air inlet valve

- Loading-unloading control
- Integrated check valve function
- Low pressure drop



6 Air filter

- Low pressure drop
- Large capacity and high precision air filter element



7 Air/Oil separator

- Large capacity design
- Low pressure drop
- Equipped with pressure gauge and lubricant level gage



8 Belt driven

- Easy to maintain
- Equipped with a protective cover
- Easy to adjust belt tension design



9 Piping

- All the lubricant and discharge system equipped with metal flexible pipe



10 Moisture separator option

- Automatic drain
- Large capacity
- High efficiency separation



Distinctive advantage of
LMF Rotary Screw Air Compressors

Standard Features

- ✓ High-efficiency rotary screw assembly
- ✓ IE2 IP54 motor, excellent design for motor cooling
- ✓ High capacity, low pressure drop and high precision air filter
- ✓ 4,000 hours service life synthetic lubricant
- ✓ 4,000 hours service life oil separator
- ✓ Loading-unloading capacity control function
- ✓ Sequence control
- ✓ Excellent micro-computer controller

Addition options

- ☐ 8000 hours service life oil separator
- ☐ 8000 hours service life lubricant
- ☐ Modulation valve
- ☐ Heat recovery system
- ☐ Centralized controller
- ☐ ANSI/DIN flange outlet
- ☐ Efficient and high-capacity moisture separator with automatic drainage function
- ☐ IE3 IP54 motor
- ☐ Variable speed control

Air filter

- High precision
- Large capacity
- Low pressure drop



Oil filter

- Environmental filter material
- Filtering accuracy over 99.5%

Oil separator

- Fluid carryover less than 2ppm

Lubricant

Blue-4k

- High oxidative stability
- Low oil carryover
- High-flash point
- Non-adhesive
- Anti-corrosion
- High thermal conductivity



Blue-8k

- Long service life
- Low oil carryover
- High-flash point
- Non-adhesive
- Anti-corrosion
- High thermal conductivity

When the machine is serviced according to the schedule set out in the operator manual and when genuine LMF spare parts and lubricants are used, the air end will have a 5 year or 30,000 hour warranty.

LMF LX series

LX11-160 kW Specifications

Model	Motor	Maximum discharge pressure			Weight	Discharge connection
	kW	8.5bar	10.5bar	13bar	kg	
		m³/min (60Hz)				
LX11	11	1.45	1.32	1.18	450	G1
LX15	15	2.1	1.9	1.8	550	G1
LX18	18.5	2.75	2.52	2.3	650	G1
LX22	22	3.1	2.95	2.8	700	G1
LX30	30	4.6	4.3	4	900	G1 1/2
LX37	37	5.7*	5.37	5	1000	G1 1/2
LX45	45	8.4*	6.9	5.6	1100	G1 1/2
LX55	55	10.9	8.7	7.5	1400	G1 1/2
LX75	75	12.3	12.1	9.3	1900	G2
LX90	90	17.76	-	11.6	2100	G2
LX110	110	20.4	17.7	13.5	2800	DN65
LX132	132	24.7	20.2	16	2900	DN65
LX160	160	27	23	20	3600	DN65

Remarks

- * 1. LX37-8.5 machine weight 900kg
- * 2. LX45-8.5 machine weight 980kg
- 3. Capacity is measured under the rated discharge pressure according to ISO 1217, attached C.

Dimensions

Model	Length	Width	Height
	mm	mm	mm
LX11, LX15	1060	800	1230
LX18, LX22	1080	880	1415
LX30	1300	1100	1650
LX37, LX45*	1300	1100	1650
LX55*	1620	1230	1670
LX75	2440	1160	1620
LX90	2560	1300	1620
LX110	2760	1340	1710
LX132	2760	1340	1710
LX160	2860	1510	1810

Remarks

- * 1. LX37-8.5,LX45-8.5 dimensions 1630*910*1220 L*W*H(mm)
- * 2. LX55-8.5 dimensions 1950*1160*1550 L*W*H(mm)
- 3. All types of dimensions without moisture separator.

www.lmf.at



**LMF Austria
Headquarter****Leobersdorfer Maschinenfabrik
GmbH**

Suedbahnstr. 28
A - 2544 Leobersdorf
phone: + 43 - 2256 - 9001
fax: + 43 - 2256 - 9002
sales@LMF.at
service@LMF.at

China

LMF (Wuxi) Gas Equipment Co., Ltd.

Plant Building 2 China Industrial Expo Park,
No. 11 Qunxing Road, Xinwu District, Wuxi,
Jiangsu, China 214112
phone: +86 400 110 2588
china@LMF.at

United Kingdom

**LMF UK
LMF (Leobersdorfer Maschinenfabrik) UK LTD**

Oakland House – 2nd Floor, 76 Talbot Road
Old Trafford, Manchester M16 0PQ
United Kingdom
phone: +44 7711 198340
uk@lmf.at

Beijing LMF Compression Equipment Technology Co., Ltd.

Room 2315 NorthStar Time Tower,
No. 8 Beichendong Road, Chaoyang District,
Beijing, China 100101
phone: +86 10 8498 7448
china@LMF.at

Russia

LMF Russia

Khimki, Kommunalny Proezd,
Building 30, Floor 3, Office 5305
141400, Moscow region
phone: + 7 495 737 08 71, 72
fax: + 7 495 737 08 71
russia@LMF.at

LMF (Shanghai) Compression Technology Co., Ltd.

Room 2103, Fortune Gate, No.1701 West Beijing Road,
Jingan District, China 200040
phone: +86 21 3122 2069
fax: +86 21 3122 2070
china@LMF.at


www.lmf.at


CENTRIFUGAL
TECHNOLOGY

worldwide compressor technology