



# LMF Rotary Screw Air Compressors 5-355kW LX Range



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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
- 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



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### 1 Air end

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



### 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



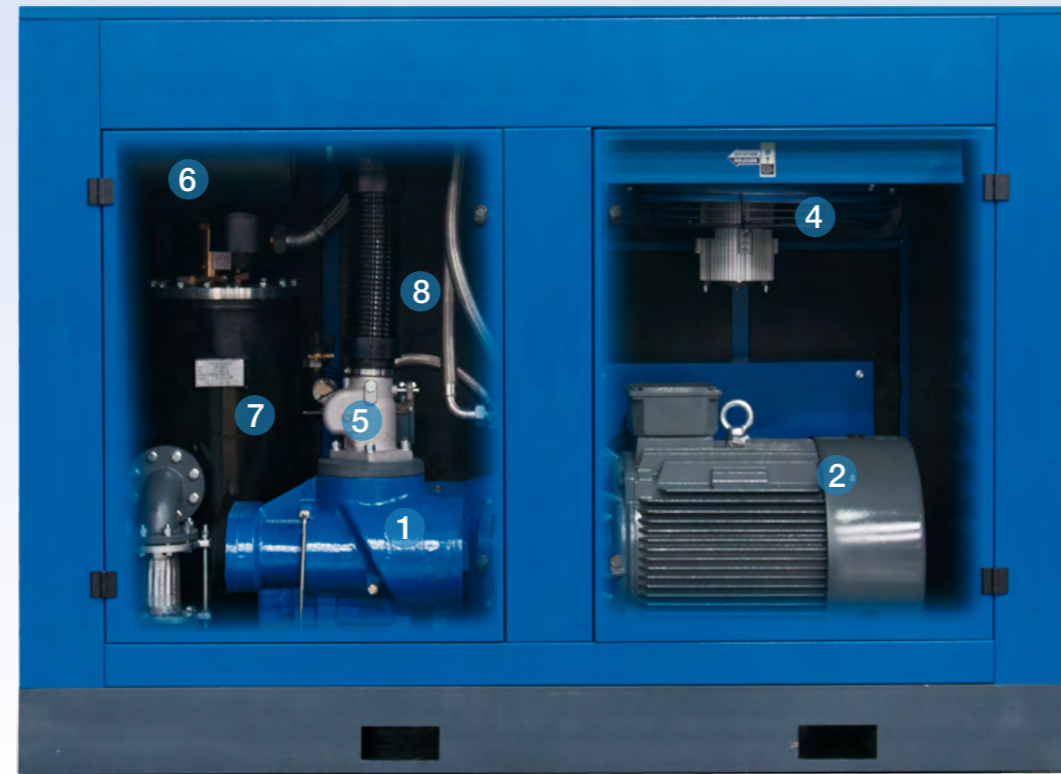
### 2 Motor

- 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



### 7 Air/Oil separator

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



### 8 Piping

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

### 4 Cooling system

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

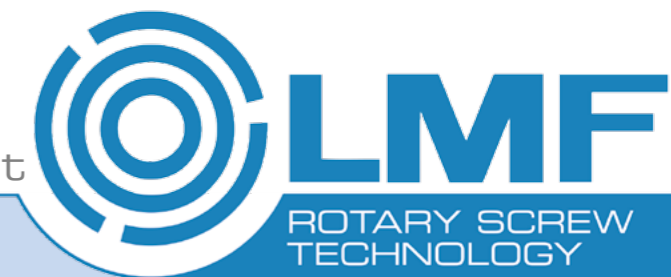


### 9 Moisture separator option

- Automatic drain
- Large capacity
- High efficiency separation



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## 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

- Environment 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

### LX5-355 kW Specifications

Model	Motor kW	Maximum discharge pressure			Weight kg	Discharge connection
		8.5bar	10.5bar	13bar		
		m <sup>3</sup> /min (50Hz)				
LX5	5.5	0.7	0.6	0.5	240	G1
LX7	7.5	1.09	0.87	0.75	260	G1
LX11	11	1.66	1.35	1.15	450	G1
LX15	15	2.34	1.88	1.7	500	G1
LX18	18.5	3.2	2.5	-	600	G1
LX22	22	3.8	3.3	2.7	650	G1
LX30	30	5.4	4.5	3.5	680	G1 1/2
LX37	37	6.7	5.3	3.7	700	G1 1/2
LX45	45	8.3	6.5	5.3	880	G1 1/2
LX55	55	10.5	8.3	6.5	1350	G1 1/2
LX75	75	14.1	11.6	9.4	1550	G2
LX90	90	16.6	14.1	11.3	2000	G2
LX110	110	21	16.8	13.8	2700	DN65
LX132	132	23.5	20.7	16.3	2800	DN65
LX160	160	28.2	24.3	20.3	4200	DN80
LX200	200	36.6	31.9	28.4	4300	DN80
LX250	250	45.9	39.7	33	6000	DN100
LX315	315	55.2	49.5	45.4	7200	DN125
LX355	355	65.3	54.6	49.3	7400	DN125

#### Remarks

1. Capacity is measured under the rated discharge pressure according to ISO 1217, attached C.

### Dimensions

Model	Length	Width	Height
	mm	mm	mm
LX5, LX7	900	700	1040
LX11, LX15	1060	800	1230
LX18, LX22	1370	900	1110
LX30, LX37	1600	960	1220
LX45	1630	960	1220
LX55	1850	1200	1500
LX75	2160	1220	1580
LX90	2160	1320	1580
LX110, LX132	2500	1400	1710
LX160, LX200	2960	1860	2000
LX250	3700	2200	2200
LX315, LX355	4200	2200	2210

#### Remarks

1. All types of dimensions without moisture separator.  
2. LX5-LX15: Belt Drive. LX18-LX355: Direct Drive.

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