

# ML SERIES

MASTERLINE PRESSURE LUBRICATED  
AIR COMPRESSORS 5-30HP





**SOME COMPANIES ARE FOUNDED ON HARD WORK.  
OTHERS ARE FOUNDED ON IDEALS.**

**FS-CURTIS WAS FOUNDED ON BOTH.**

More than 165 years ago, the FS-Curtis way of doing business was established through two key commitments: a dedication to building quality products and a dedication to responsive customer service.

Over the decades, the company and its products have evolved through innovation and new technologies. But those commitments to quality and service remain unchanged. Today, just as in 1854, FS-Curtis customers can depend on our products for reliable, long-term service. Equally as important, they can depend on getting the same from our people.

# A HISTORY OF EXCELLENCE

<b>1854</b>	<b>1857</b>	<b>1876</b>	<b>1897</b>	<b>1914</b>	<b>1940</b>	<b>1955</b>	<b>1976</b>
Curtis & Co. – Empire Saw founded in St. Louis, MO, USA	Earned Agricultural and Mechanical Fair award for excellence and quality	Named Curtis and Co. Manufacturing	Built first reciprocating air compressor that later evolved into the Master Line Series	Supported U.S. Government efforts by producing more than 2 million Howitzer shell forgings	Designed and developed mobile oxygen compressors to be used in Aerospace applications	Merged with U.S. Air Compressor Company, Central Petroleum Company, Lewis Machine Company	Merged with Toledo Tools as Curtis-Toledo Inc.
<b>1979</b>	<b>1995</b>	<b>2005</b>	<b>2006</b>	<b>2010</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
Introduction of Challenge Air Series reciprocating air compressors	Began manufacturing and assembling Rotary Screw Air compressors	Expanded global market reach by joining forces with Fusheng Industrial	U.S. Headquarters certified as ISO9001:2000 and ISO14001:2004	Introduced next generation GSV Variable Speed Rotary Screw compressors	Introduced Nx series Fixed and Variable Speed Rotary Screw compressors	Nx Series named Plant Engineering's 2015 Product of the Year - Gold Award for Compressed Air	Nx Series claims Plant Engineering's Product of the Year - Gold Award 2nd year in a row

# SETTING THE NEW STANDARD

## HEAVY-DUTY PERFORMANCE

Masterline is the most robust, heavy-duty reciprocating air compressor lineup available. The perfect combination of quality components and efficient design make the ML Series rugged, affordable and smart. Because every model is built tough to last a lifetime in demanding working conditions, the ML Series is an outstanding alternative to splash-lubricated reciprocating compressors and small rotary compressors. Choose higher quality. Choose superior durability. Choose ML Series pressure lubricated air compressors.



## ML SERIES FEATURES AT A GLANCE

### CENTRO-RING PRESSURE LUBRICATION

*Patented FS-Curtis design.*

- Proprietary technology is an FS-Curtis exclusive
- Supplies pressurized oil internally to all bearings and critical wear surfaces through the rifle-drilled crankshaft and connecting rods
- Helps ensure maximum uptime and increase service life

### 100% CAST-IRON CYLINDERS, CYLINDER HEADS, CONNECTING RODS, AND CRANKSHAFT

*All cast-iron where it counts for longer life with less maintenance.*

- Some pumps claim 100% cast-iron yet still have aluminum cylinders, cylinder heads, connecting rods and crankshafts — not FS-Curtis
- Ductile cast-iron crankshaft and connecting rods are stronger, more corrosion-resistant and less likely to break

- Slow-turning pump increases pump life
- Rugged parts and construction for industrial performance

### QUALITY COMPONENTS

*Built for durability and reliability.*

- Industry-leading stainless-steel valve assemblies for increased airflow and reliability
- Oversized tapered main roller bearings to ensure long life
- Premium finned intercooler maximizes heat dissipation
- Metal intake filter housing is superior to plastic
- Heavy-duty stamped-steel belt guard
- Suction valve head unloaders for continuous running air compressors

**AMERICAN  
CRAFTSMANSHIP**  
**ST. LOUIS, MO USA**

Choose higher quality. Choose superior durability.  
Choose ML Series pressure-lubricated air compressors.



# TECHNICAL DATA

STANDARD FEATURES	STANDARD (Simplex/Duplex)	ULTRAPACK (Simplex/Duplex)
Patented Centro-Ring pressure lubrication system	.	.
100% cast-iron— Cylinders, cylinder heads, connecting rods	.	.
Factory oil filled	.	.
Magnetic motor starter (Simplex)	.	.
Alternater control panel complete with magnetic starters (Duplex)	.	.
NEMA-designed electric motor	.	.
Automatic start/stop controls	.	.
ASME-approved air receiver	.	.
Manual condensate tank drain valve	.	.
Dial read-out pressure gauge	.	.
U.L. -approved pressure switch	.	.
ASME-approved safety valve	.	.
ASME-approved discharge valve	.	.
Metal intake filter/silencers	.	.
Dynamically balanced flywheel	.	.
OSHA-approved totally enclosed metal belt guard	.	.
Dual control (10-30HP Simplex)	o	.
Air-cooled aftercooler	o	.
Low oil level shutdown	o	.
Automatic tank drain	o	.
Tank isolator pads	o	.

o Optional Feature    . Standard Feature    □ UltraPack Features

## THE CENTRO-RING PRESSURE LUBRICATION ADVANTAGE

When you need continuous duty, the ML Series delivers. Only FS-Curtis offers the unique Centro-Ring lubrication system that extends the life of the compressor. Centro-Ring lubrication is superior to splash-lubricated systems because it supplies pressurized oil internally to all bearings and critical wear surfaces through the rifle-drilled crankshaft and connecting rods, ensuring that all critical components are properly lubricated. That means an air compressor with Centro-Ring lubrication will last significantly longer than a similar splash-lubricated compressor. It's just another reason why the FS-Curtis ML Series is the most trusted and dependable line available.

## UltraPack DELIVERS

There's no better compressor value than an FS-Curtis UltraPack. As you can see, you'll get every top-quality FS-Curtis feature. Plus, only UltraPack purchases come with a 5-year UltraShield warranty.

## ELECTRIC MODELS

MODELS	HP	PUMP	CFM (@175psi)	CONFIGURATION	STANDARD PACKAGE			ULTRAPACK*		
					TANK (Gal.)	DIMENSIONS (LxWxH-in.)	WEIGHT (Lbs.)	TANK (Gal.)	DIMENSIONS (LxWxH-in.)	WEIGHT (Lbs.)
ML5	5	D96	19.1 Simplex	Horizontal	80	67x26 x 51	600	80	67 x 29 x 52	650
				Vertical		36 x 30 x 77			39 x 32 x 78	
			38.2 Duplex	Horizontal	120	76 x 29 x 56	1025	120	83 x 31 x 57	1095
ML7.5	7.5	C79	28.7 Simplex	Horizontal	80	67 x 26 x 49	650	80	67 x 29 x 50	700
				Vertical		36 x 30 x 75			39 x 31 x 76	
			57.4 Duplex	Horizontal	200	76 x 29 x 54	1200	200	82 x 31 x 55	1300
ML10	10	D97	39.8 Simplex	Horizontal	120	74 x 33 x 59	1020	120	74 x 36 x 57	1050
ML15	15		79.6 Duplex		200	88 x 32 x 64	1800	200	90 x 37 x 64	1950
ML15+	15	C89	49.5 Simplex	Horizontal	120	74 x 33 x 59	1150	120	74 x 36 x 59	1250
					200	88 x 36 x 64	2000	200	89 x 40 x 64	2150
			65.1 Duplex		120	73 x 33 x 58	1125	-	-	-
ML20+	20	C98	79.3 Simplex	Horizontal	200	78 x 43 x 76	2050	-	-	-
					240	95 x 46 x 73	3650	240	105 x 53 x 73	3800
			158.6 Duplex		200	78 x 43 x 76	2150	-	-	-
ML25	25	C98	82.4 Simplex	Horizontal	240	95 x 46 x 73	3750	240	105 x 53 x 74	3900
					200	78 x 43 x 76	2350	-	-	-
			164.8 Duplex		240	95 x 46 x 73	3850	240	105 x 53 x 74	4075
ML30	30	C98	102.2 Simplex	Horizontal	200	78 x 43 x 76	2350	-	-	-
					240	95 x 46 x 73	3850	240	105 x 53 x 74	4075
			204.4 Duplex							

\*View features chart for UltraPack features.

# THE CONFIGURATION YOU NEED

ML Series compressors aren't just durable. They're also versatile, with a wide range of available configurations. No matter what your application, there's a Masterline compressor just right for your needs. Be sure to speak with your FS-Curtis distributor to learn about the many Masterline options available to you.



## SIMPLEX

Simplex compressors are well suited for common applications where only one compressor is needed.

- Magnetic motor starter
- Manual tank drain
- Oil sight glass
- Horizontal or vertical tank configurations available
- Factory oil filled

## DUPLEX

Duplex compressors are ideal when there are varying demand levels during operation. By alternating demand across two pumps, a duplex compressor also delivers longer pump life. The redundant pumps ensure you'll always have air, eliminating maintenance downtime.

- Alternator control panel comes mounted with magnetic motor starters and thermal overload protection
- Compressors alternate during normal operation
- Both compressors run when system demands it
- Duplex design reduces electrical cost and eliminates downtime
- Factory oil filled



## ULTRAPACK

The ultimate value, an FS-Curtis UltraPack gives you a Masterline Simplex or Duplex compressor fully packaged with the most common options and accessories. You'll save money and time by getting it all in one package, and you'll be assured of increasing air quality while reducing maintenance needs. Industry-leading five year UltraShield warranty available — talk to your FS-Curtis representative for more details.

- Air-cooled aftercooler
- Magnetic motor starter (Simplex)
- Alternator panel (Duplex)
- Dual control (10-30HP Simplex)
- Low oil level shutdown
- Automatic tank drain
- Tank isolator pads
- Factory oil filled



## THE PERFECT ALTERNATIVE TO SMALL ROTARY AIR COMPRESSORS

Unlike rotary screw air compressors, ML Series models can run intermittently AND 100% continuous duty. They're an ideal alternative to rotary screw air compressors in environments where a constant load isn't needed. ML Series compressors can handle more rugged, hot or dirty ambient conditions that can put a rotary screw air compressor at risk of failure and expensive repairs.

## CONTINUED COMMITMENT

A company history that dates back more than 165 years is a company history that, to us, is just the beginning. FS-Curtis is committed to offering a world-class portfolio of products. Through the dependability of our people and our quality-focused manufacturing, FS-Curtis will continue to be the most trusted and dependable name in compressed air serving even more markets through our ever-growing global presence.

You can count on **FS-Curtis** to approach the next 165 years by staying true to the values and strengths that are appreciated by our customers today.

## A WORLD OF DIFFERENCE

The FS-Curtis headquarters in St. Louis, Missouri, U.S.A. is the anchor of a larger global network. FS-Curtis builds quality products — and a quality reputation — at locations around the world.

In addition to our manufacturing and packaging locations, a large global network of sales agents and distributors ensures that sales and service support is available around the world, day in and day out.

### ST. LOUIS, MO USA (HEADQUARTERS)

PUNE, INDIA | JUNDIAI, BRAZIL | OBERHAUSEN, GERMANY | SHANGHAI, CHINA | TAIPEI, TAIWAN | PITTSBURGH, PA USA (FS-ELLIOTT)  
ZHONGSAN, CHINA | BEIJING, CHINA (FUSHENG) | ZHONGSAN, CHINA (FUSHENG) | HO CHI MINH CITY, VIETNAM (FUSHENG)

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Improvements and research are continuous at FS-Curtis. Specifications may change without notice.

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