

A SERIES

RECIPROCATING AIR COMPRESSORS





FS-CURTIS WAS FOUNDED ON BOTH.

A HISTORY OF

1854

1857

1876

1897

1914

1940

1955

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 ⊠rst 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



REAL-WORLD PEOPLE

When you're successful, we're successful. That's why FS-Curtis listens. Trust and dependability are the foundations of our past and the fabric of our future, so you can count on being treated with the personal touch you deserve.

"Trust and dependability are the foundations of our past and the fabric of our future.

~ Brent Becker – President, FS-Curtis



More than 150 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.

FXCERERICE

1976

1979

1995

2005

2006

2010

Merged with Toledo Tools as Curtis-Toledo Inc.

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 certi⊠ed as ISO9001:2000 and ISO14001:2004

Introduced next generation GSV Variable Speed Rotary Screw compressors





REAL-WORLD PRODUCTS

Take more than a century of experience building quality compressors, add in a staff that's listening to the needs of the market, and the result is a product lineup that's built for tough working conditions. No wonder so many customers around the world depend on FS-Curtis compressors day in and day out.

THE INDUSTRY WORKHORSE

For automotive, light industrial and other challenging applications, A Series compressors are built to last. Components are selected based on durability and performance, ensuring that your A Series compressor delivers reliable performance in demanding applications. Precision-machined components and a dedication to materials of construction that are meant for real world working conditions further assure long-term durability.







A SERIES FEATURES AT A GLANCE

THE MOST DURABLE PUMP CONSTRUCTION AVAILABLE

Meticulous material selection ensures long-term reliability.

- 100% cast-iron cylinders and cylinder heads
- · Long-lasting, corrosion-resistant crankshaft
- · Reduces thermal stress for increased reliability
- Deep-finned cast-iron cylinders and cylinder head for cool operation
- · Slow-turning pump increases pump life

INDUSTRIAL DESIGN

The most robust reciprocating air compressor in its class.

- Provides higher pressures, better efficiency and longer life
- · Ready to handle rugged, heavy-duty applications

QUALITY COMPONENTS

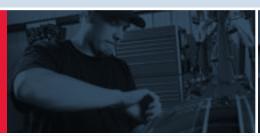
For extended product life and continuous performance.

- Industrial-grade main roller bearings are precision fit for support of all rotating parts
- High-flow, heavy-duty stainless-steel valve system delivers more cfm per horsepower
- Robust intercooler increases compressor efficiency
- Metal intake filter/silencer 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

Compare A Series compressors with any other brand, and you'll see the difference.

A Series compressors aren't just built to handle harsh environments — they're also available in a wide range of configurations to meet your exact application. You'll get the rugged construction you desire in the configuration you need.









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

The interior construction diagram of air-cooled reciprocated air compressor



1.After Cooler

The copper tube is fitted with high-efficiency cooling fins that effectively reduce gas working temperature and increase air compression efficiency.

2. Valve Assembly

All units use large disc-type valves made from Swedish steel for high efficiency and long wear

3. Cool Cylinder Heads

Deep directional fins provide quick cooling; compact streamlined air passages in the cylinder head permit fast, efficient flow of cooler intake air and rapid removal of discharge air.

4.Long-Life Cylinders

Precision-machined cylinder walls are honed glass-smooth to reduce friction and wear to a minimum. Extra-deep fins provide increased cooling and greater strength.

5.Balanced Crankshaft

Made from a high-tensile forged alloy steel and precisely ground and dynamically balanced to insure long life and smooth operation. Journals are ground precisely to extend bearing life.

6.Ring

Long life industrial design compression and oil control rings are used to assure maximum performance.

7. Connecting Rods

All units contain precision bore, industrial quality designed connecting rods ... a splash lubrication is used.

8.Main Bearings

To insure long life and easy maintenance, high quality ball bearings or tapered roller bearings are used in the FUSHENG compressors.

9. Suction Strainer

Permanent type strainer effectively filters air and muffles noise of air intake. Easily removed for periodic cleaning

10. Continuous Running Unloader

For continuous-running air compressors, unloader lets unit idle load-free until air supply drops to cut-in pressure; automatically lets unit idle again after high pressure limit is reached. (Tubing and fittings not included on bare pumps

11.Balanced Fan-Type Flywheel

Airfoil-type spokes provide a continuous powerful blast of cooling air for all portions of the compressors; balancing assures smooth and low vibration operation.

12.Crankcase

The extra large crankcase with big oil reservoir assures cooler running and better lubrication.





A-SERIES AIR COMPRESSORS

	Motor		Cylinder				Piston Disp.	NA/ - ulaina -	A	Net		
Model	Нр	Kw	Bore	No.	Stroke (mm)	Comp R.P.M	L/min	Working Pressure	Dimensions	Capacity	Max Pressure	Weight - (kg)
		IXW	(mm)	INO.				(Kg/cm ² G)	Ø mmxmm	Liter	Kg/cm ²	
VA-51	0.5	0.37	51	2	42	498	85	8	Ø 300x910	60	10	55
VA-65	1	0.75	65	2	44	477	139	8	Ø 300x1050	70	10	70
TA-65	2	1.5	65	3	48	633	302	8	Ø 300x1050	70	10	90
VA-80	3	2.2	80	2	60	651	393	8	Ø 350x1160	105	10	130
TA-80	5.5	4	80	3	60	875	791	8	Ø 390x1410	155	10	188
VA-100	7.5	5.5	100	2	70	955	1050	8	Ø 485x1440	245	10	270
TA-100	10	7.5	100	3	70	888	1465	8	Ø 485x1760	304	10	340
TA-120	15	11	120	3	80	805	2183	8	Ø 485x1760	304	10	445
TA-125	20	15	125	3	90	913	3022	8	Ø 640x1760	500	10	540



TWO-STAGE AIR-COOLED AIR COMPRESSORS

	Motor						Piston Disp.	Working	Air F	Net		
Model	HP	kW	Bore		Stroke	Comp R.P.M	L/min	Pressure (Kg/cm ² G)	Dimensions	Capacity	Max Pressure	Weight (kg)
		NVV	(mm)		(mm)					Liter	Kg/cm ²	
HVA-65	1	0.75	65 42	1	44	742	108	12	Ø 300x1050	70	13.5	90
HTA-65	2	1.5	65 51	<u>2</u> 1	48	742	236	12	Ø 300x1050	70	13.5	100
HTA-65H	3	2.2	65 51	2	48	916	292	12	Ø 350x1160	105	13.5	115
HTA-80	5.5	4	80 65	2	60	954	575	12	Ø 390x1410	155	13.5	200
HTA-100	7.5	5.5	100 80	2	70	691	760	12	Ø 490x1440	245	13.5	315
HTA-100H	10	7.5	100 80	2	70	907	997	12	Ø 490x1760	304	13.5	350
HTA120	15	11	120 100	2 1	80	863	1560	12	Ø 490x1760	304	13.5	450

TWO-STAGE AIR-COOLED AIR COMPRESSORS

Model	Motor		Cylinder				Piston Disp.					
		kW	Bore	No.	Stroke (mm)	Comp R.P.M	·	Working Pressure (Kg/cm ² G)	Dimensions	Capacity	Max Pressure	Net Weight
	HP		(mm)				L/min		Ø mmxmm	Liter	Kg/cm ²	(kg)
HTA-65H-VT	3	2.2	65	2	48	916	292	12	Ø 640x910	245	13.5	210
11171 0011 11			51	1								
HTA-80-VT	5.5	4	80	2	60	954	575	12	Ø 640x910	245	13.5	270
1117-00-41			65	1					∞ 0403910	240	10.0	270
HTA-100-VT	7.5	.5 5.5	100	2	70	691	760	12	Ø 640x910	245	13.5	245
ПТА-100-V I			80	1					Ø 640X910	245	13.5	243
HTA-100H-VT	10	7.5	100	2	70	907	997	12	Ø 640x910	245	13.5	360
			80	1								300

A SERIES AIR COMPRESSORS



D-SERIES AIR COMPRESSORS

Model	Motor		Cylinder				Piston Disp.	Working	Aiı	NI-+		
	HP	kW	Bore (mm)	No.	Stroke (mm)	Comp R.P.M	L/min	Pressure (Kg/cm ² G)	Dimensions	Capacity	Max Pressure	Net Weight
									Ø mmxmm	Liter	Kg/cm ²	(kg)
D-1	0.5	0.37	51	1	42	807	69	7	Ø 244x720	33	10	40
D-2	1	0.75	51	2	42	742	127	7	Ø 300x910	60	10	60
D-3	2.2	1.65	65	2	44	1006	294	7	Ø 300x1050	70	10	82
D-4	3	2.2	65	3	48	757	362	7	Ø 350x1160	105	10	110

PISTON



CONNECTING RODS



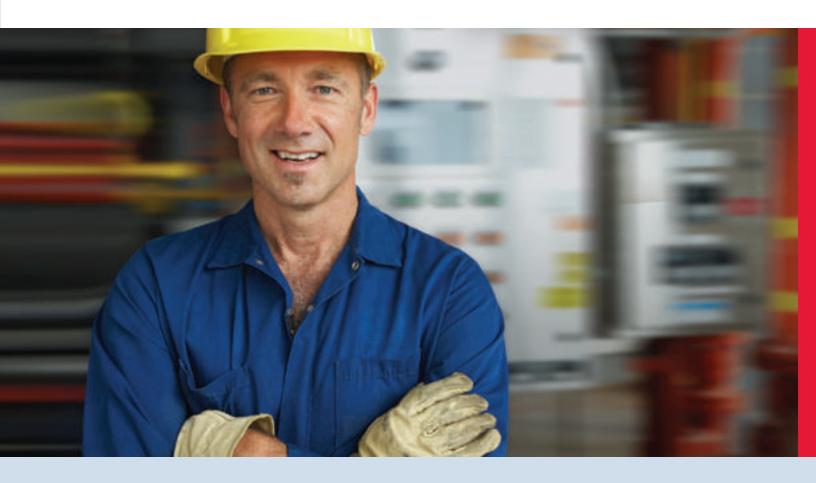
BEARING



RING







EASY TO WORK WITH

Just as you get personal attention from FS-Curtis when selecting equipment, you're also supported worldwide by great people. You can count on the global FS-Curtis staff and representatives to listen to your needs and work with you to develop the solution that's best for your situation. Our people are committed to serving you well and FS-Curtis provides extensive training in the ⊠eld and at our St. Louis headquarters to ensure that you have the support you need.

In addition, authorized FS-Curtis distributors use genuine FS-Curtis parts, lubricants and 🖂 lter kits to maximize the service life of your equipment. And with a nationwide network of service centers, you don't need to worry about added downtime waiting for parts.

QUALITY PARTS MATTER

At FS-Curtis, quality is never compromised. That's why we control production using ISO 9001:2008 and ISO 14001:2004 standards, and it's also why we maintain a large inventory of replacement parts.

Using only genuine FS-Curtis replacement parts not only helps ensure continued reliable service of your equipment, but the large inventory also helps keep parts affordable and available. We're dedicated to maximizing your productivity, and that includes maximizing your uptime.

Through the dependability of our people and our quality-focused manufacturing, FS-Curtis will continue to be a trusted name serving even more markets through our ever-growing global presence.





AUTHORIZED FS-CURTIS DEALER:

