



A SERIES
AIR COMPRESSOR

FUSHENG GROUP FACTORIES WORLD WIDE

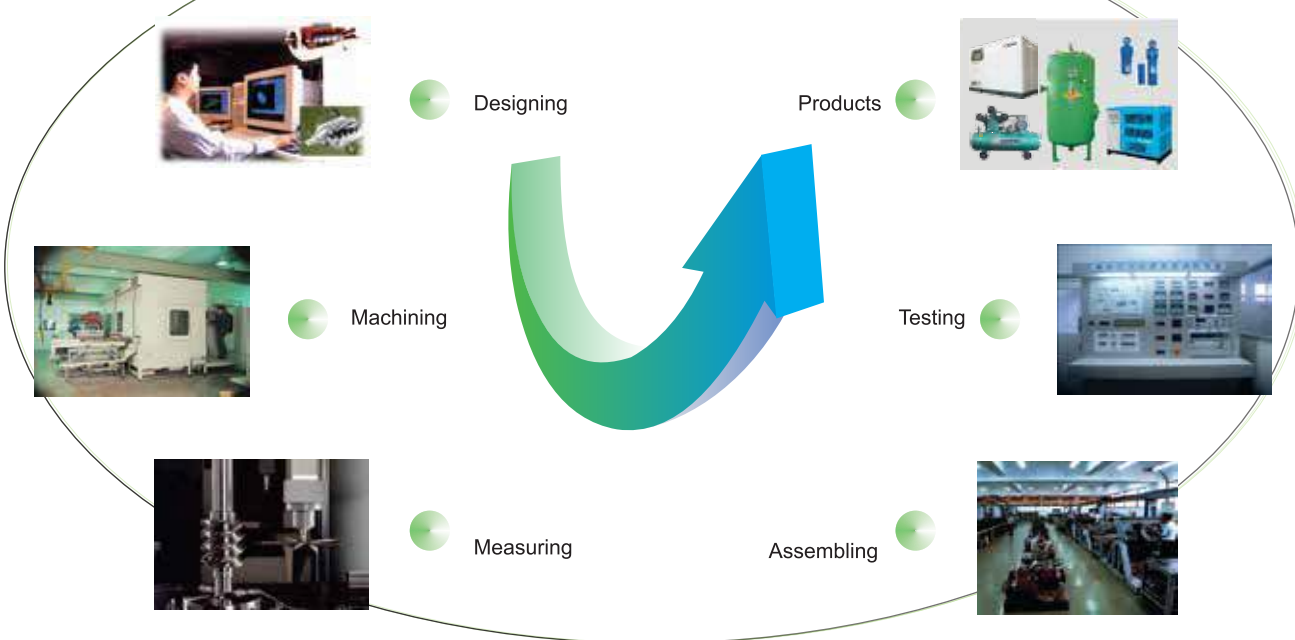


Founded in 1953, FUSHENG always strives to maintain a consistent managerial philosophy of pursuing excellence and enriching life. FUSHENG has made every effort to ensure that customers of the highest quality. After years hard work, FUSHENG has been providing compressors in more than sixty countries all over the world.

Keeping growth is the basic condition of survival in the competitive market. For years, FUSHENG has been keeping on improving manufacturing facility and technology. A plant automation project was initiated in 1978, which incorporated Managerial Information Systems (MIS), Engineering Information Systems (EIS) and Flexible Manufacturing Systems (FMS). With this integrated system, the management level is able to access the valuable information which benefits to the improvement of product design.

All of the parts and casings of the compressor are precisely milled under humidity and temperature control room and then a sophisticated coordinate measuring machine is used to inspect the dimension of finished parts. Compressor rotors dynamically balanced before assembly. Under FUSHENG quality control system, every screw compressor shall be tested before shipment.

MANUFACTURING PROCESS



AIR-END ROTOR PROFILE PATENT

USA No.4.890.922

UK No.2.230.563

JAPAN No.2.008216



CNC machining center (Japan)



Five axis machining center (Japan)



Japanese housing CNC machining center



German KAPP rotor grinding machine

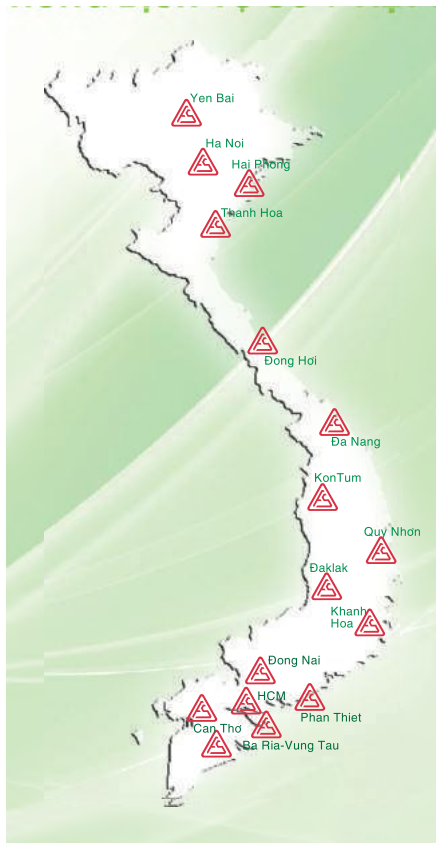
SERVICE SYSTEM



The contingents of technicians are always available to satisfy the customer's requirement.



We have 300 professional employees
4 millions USD inventory in VIETNAM



High efficiency
Air compressor



Quickly after-service system



Two-Year Warranty for
VA-80, TA-80, VA-100, TA-100, TA-120

A-SERIES AIR COMPRESSORS



Model	Motor		Cylinder			Comp R.P.M	Piston Disp. L/min	Working Pressure (Kg/cm ² G)	Air Receiver			Net Weight (kg)
	Hp	Kw	Bore (mm)	No.	Stroke (mm)				Dimensions	Capacity	Max Pressure	
							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

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 broed, 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 vibrationless operation.

12.Crankcase

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



TWO-STAGE AIR-COOLED AIR COMPRESSORS

Model	Motor		Cylinder			Comp R.P.M	Piston Disp. L/min	Working Pressure (Kg/cm ² G)	Air Receiver			Net Weight (kg)
	HP	kW	Bore (mm)	No.	Stroke (mm)				Dimensions	Capacity Liter	Max Pressure Kg/cm ²	
HVA-65	1	0.75	65 42	1 1	44	742	108	12	∅ 300x1050	70	13.5	90
HTA-65	2	1.5	65 51	2 1	48	742	236	12	∅ 300x1050	70	13.5	100
HTA-65H	3	2.2	65 51	2 1	48	916	292	12	∅ 350x1160	105	13.5	115
HTA-80	5.5	4	80 65	2 1	60	954	575	12	∅ 390x1410	155	13.5	200
HTA-100	7.5	5.5	100 80	2 1	70	691	760	12	∅ 490x1440	245	13.5	315
HTA-100H	10	7.5	100 80	2 1	70	907	997	12	∅ 490x1760	304	13.5	350
HTA120	15	11	120 100	2 1	80	863	1560	12	∅ 490x1760	304	13.5	450



■ Semi-automatic type:

This type uses a pilot valve to control the no load or loaded operation status of compressor. When the system pressure reaches the high-limit set point (7.0 kg/cm², for example), pilot valve will open to actuable suction unloader to allow compressor no-load running.

When system pressure drops down to the low-limit set point (5.0 kg/cm², for example), pilot valve will close and compressor returns to loaded run status. The semi-automatic operating method is suitable for frequent-run use of compressed air.



■ Full-automatic type:

This type uses a pressure switch to control when the compressor runs and stops. When the system pressure reaches the upper-limit set point (7.0 kg/cm², for example), pressure switch activates to cut off motor power and ceases compressor operation. When system pressure drops down to the pressure low-limit set point (5.0 kg/cm², for example), pressure switch re-connects motor power to re-start compressor operation. The automatic operating method is suitable for intermittent run duty. And in order to protect motor and EM switch, the restart frequency should not exceed six times per hour.



TWO-STAGE AIR-COOLED AIR COMPRESSORS

Model	Motor		Cylinder			Comp R.P.M	Piston Disp. L/min	Working Pressure (Kg/cm ² G)	Air Receiver			Net Weight (kg)
	HP	kW	Bore (mm)	No.	Stroke (mm)				Dimensions ∅ mmxmm	Capacity Liter	Max Pressure Kg/cm ²	
HTA-65H-VT	3	2.2	65 51	2 1	48	916	292	12	∅ 640x910	245	13.5	210
HTA-80-VT	5.5	4	80 65	2 1	60	954	575	12	∅ 640x910	245	13.5	270
HTA-100-VT	7.5	5.5	100 80	2 1	70	691	760	12	∅ 640x910	245	13.5	245
HTA-100H-VT	10	7.5	100 80	2 1	70	907	997	12	∅ 640x910	245	13.5	360



Oil lubricate crankcase



Oil-free crankcase

Oil-free air compressor applications in industry

A 100% oil-free air compressor you required, it's not only oil-free compression chamber. With the inner design of oil-free crankcase, it can prevent the oil that rises from the crankshaft and flows freely up into down the compression chamber.

We believe that you will be satisfied with this efficient function. On the other hand, you can be proud of using air from the oil free air compressor, it is really oil-free air.

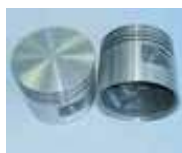


OIL-FREE AIR COMPRESSORS

Model	Motor		Cylinder			Comp R.P.M	Piston Disp.	Working Pressure (Kg/cm ² G)	Air Receiver			Net Weight (kg)
	Hp	Kw	Bore (mm)	No.	Stroke (mm)				Dimensions	Capacity	Max Pressure	
							Ømmxmm		Liter	Kg/cm ²		
FVA-30(II)	3	2.2	100	2	70	467	513	8	Ø 485x1440	245	10	222
FVA-50(II)	5.5	4	100	2	70	700	770	8	Ø 485x1440	245	10	240
FVA-75(II)	7.5	5.5	100	2	75	756	890	8	Ø 485x1440	245	10	360
			71	1								
FVA-100(II)	10	7.5	115	2	90	570	1060	8	Ø 485x1770	304	10	420
			95	1								
FTA-150(II)	15	11	130	2	90	668	1595	8	Ø 485x1770	304	10	455
			115	1								



PISTON



CONNECTING RODS



BEARING



RING

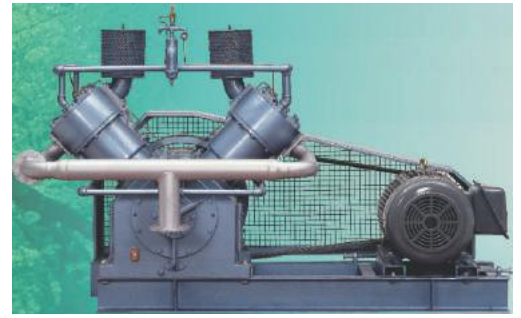


D-SERIES AIR COMPRESSORS

Model	Motor		Cylinder			Comp R.P.M	Piston Disp.	Working Pressure (Kg/cm ² G)	Air Receiver			Net Weight (kg)
	HP	kW	Bore (mm)	No.	Stroke (mm)				Dimensions	Capacity	Max Pressure	
							Ø mmxmm		Liter	Kg/cm ²		
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

SPECIFICATIONS & SHIPPING DATA-W SERIES

Specs.		Model	Unit	HYW-15S	HYW-16S	HRW-16S
Cylinder Bore x Number of Cylinder	Low Pressure	mm	133 x 2	152 x 2	152 x 3	
	High Pressure	mm	51 x 2	65 x 2	65 x 3	
Piston Stroke		mm	114			
Compressor Revolution		RPM	450	570	640	
Working Pressure		kg/cm ² G	35			
Actual Air Delivery		L / min	911	1437	2421	
Motor Recommended		Hp	20	30	50	
Cool Water Required		L / min	54	64	80	
Lube Oil Needed		liter	14		16	
Air Tank	Dimensions	mm	Ø 485 x 1770			
	Cappacity	liter	300			
Complete Set Dimension	Lenght	mm	3170		3560	
	Width	mm	1700			
	Height	mm	2200			
Net Weight		kg	1100	1230	1710	



SPECIFICATIONS & SHIPPING VFW SERIES

Model	VFW								
Type	50	75	100	125	150	175	200	250	300
Discharge pressure	40 bar								
Cyl. Bore x No. 1st 2nd 3rd	220 x 1 170 x 1 90 x 1	300 x 1 210 x 1 120 x 1	300 x 1 210 x 1 120 x 1	300 x 1 210 x 1 120 x 1	370 x 1 270 x 1 133 x 1	370 x 1 270 x 1 133 x 1	370 x 1 270 x 1 133 x 1	450 x 1 300 x 1 155 x 1	450 x 1 300 x 1 155 x 1
Stroke (mm)	120	200	200	200	200	200	200	200	200
r.p.m	500	220	295	370	275	320	370	380	450
Actual Air Delivery (m ³ /min)	3	4.5	6	7.5	9	10.5	12	17	20
Motor (kW)	37	55	75	90	110	132	150	185	220
Cooling Water (l/min)	100	150	200	220	240	280	320	600	720
Complete Set Dimension L.W.H. mm	3400 1750 2000	4400 2550 2500	4400 2550 2500	4400 2550 2500	5100 2550 2900	5100 2550 2900	5100 2550 2900	4400 2420 3230	4400 2420 3230
Weight (kg)	3500	6500	6500	6500	9000	9000	9000	11000	11000



A SERIES
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