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WE ARE CLOSER THAN YOU THINK!

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More than 75 dealers across India

ANEST IWATA MOTHERSON

ANEST IWATA MOTHERSON PVT. LTD

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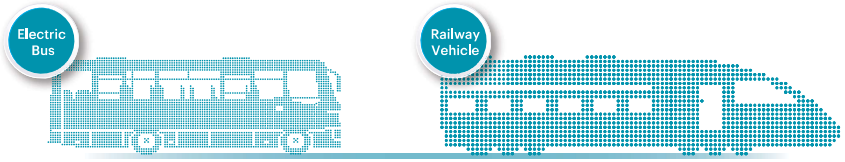
Phone: +91 120 4600 500/510/511 Email: anestiwata@aim.motherson.com

ANEST IWATA

AIR COMPRESSOR SOLUTIONS

For Railway, Metro and E-Bus



Proud to be part of samvardhana motherson

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ANEST IWATA MOTHERSON
Who Are We?

Anest Iwata Motherson (AIM) is a joint venture between Anest Iwata Corporation, Japan and Samvardhana Motherson Group, India. Anest Iwata, today stands out as a global leader in Air Compressors, Vacuum Pumps and Paint Coating Equipments & Systems with more than 9 decades of inspiring history of technological excellence.

Samvardhana Motherson Group (SMG) was established in India in 1975. Today it's a leading global auto components supplier with revenue of $ 10.5 billion and more than 270 manufacturing units spread in 41 countries employing more than 1,35,000 pepole. Samvardhana Motherson Group is known globally as a very high quality automotive supplier which gives us an edge as we understand the culture and criticalities of automotive world.

As a JV between these two global giants is committed for the peace of mind its customers by supplying best of the products supported with effective after sales support at optimum value. AIM serves its cutomers through two state of the art manufacturing facilities and a network of sakes and service partners across India,

ANEST IWATA MOTHERSON
OIL FREE COMPRESSOR

Anest Iwata developed Oil Free Scroll Compressor in 1991 for the first time in the world.

Clean

Oil free compressor has no oil in the compressed air, therefore no need for oil filter and oil catch tank. Class 0(ISO8573-1:2010[-:-:0] certified. Class 0 is TÜV-tested.

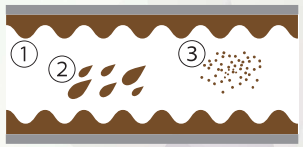
Class Zero Certification

CLASS 0 ISO 8573-1

TÜV(independent third party test house) has certified that the air quality from our oil free scroll compressors is in conformity with "Class 0(ISO8573-1:2010[--:0])"

What is Class Zero?

ISO8573-1(JIS B8392-1) defines quality classes for compressed air. Class Zero indicates that wall flow oil, oil mist and oil vapor are completely absent. As oil vapor in particular cannot be absorbed by conventional air filters, it is important for factories that require clean air use Class Zero compressors.



①Wall Flow Oil ②Oil mist
③Oil vapor

CLASS	Oil Concentration mg/m³
0	As specified by the equipment user or supplier and more stringent the Class 1
1	≦0.01
2	≦0.1
3	≦1
4	≦5

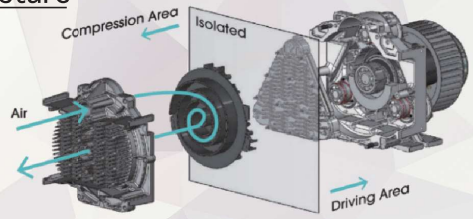
Contamination

Air from oil-lubricated compressors contains oil and can contaminate the piping. This does not happen with an oil free scroll compressor which produces high-quality oil free air.

Inside the piping of oil-lubricated compressor

Inside the piping of free compressor

Internal Structure



Oil free compressor has no oil in the compressed air, therefore no need for oil filter and oil catch tank.

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Easy Maintenance

Oil free compressor does not require replacement and inspection of lubrication, it is very easy for daily inspection. Generally, as the buses and trucks lubricate the compressor with engine oil, then if using oil lubricated compressor electrically without engine, a daily inspection of oil is required.

Oil Lubricated Scenario

Daily
- Check oil level
- Check emulsification of oil

Every month
- Replace oil

Every year
- Clean oil alarm
- Check oil alarm operation

Oil Free Scenario

Scroll compressor does not need maintenance of oil.

Technology Options

Anest Iwata Motherson has solutions for Transportation compressors for Railways Metros and E– Buses in all possible technologies.

Depending on OEM's preference, we can offer a solution but as our contribution to clean environment, we prefer Oil Free Technology

Scroll compressor

19 Kg

Screw compressor

45 Kg

Piston compressor

44 Kg

Improve efficiency by light weight silent & less vibrating scroll compressor.

Railway and Metros

Oil Free Complete unit

Model		SLBE-221EF-S1-A400	SLBE-371EF-S1-A400	SLBE-3712EF-S1-A400	SLBE-551F-S1-A400	SLBE-751F-S1-A400
Cooling System		Air-cooled				
Ambient Temperature	℃	-20 to 40				
Pressure	MPa	0.85(0.9)-1.0		1.05(1.1)-1.2	0.85(0.9)-1.0	
	bar	8.5(9)-10		10.5(11)-12	8.5(9)-10	
Power	V	AC400				
Free Air Delivery*1	L/min	210	305	295	435	605
	㎥/h	12.6	18.3	17.7	26.1	36.3
Drive system		Direct Coupling (Connected Drive System with motor), [50Hz]				
Output	kW	2.2	3.7	4.5	5.5	7.5
	HP	3	5	6	7.5	10

Oil Free Base unit

Model		SLB-221EF-S1-A400	SLB-371EF-S1-A400	SLB-3712EF-S1-A400	SLB-551F-S1-A400	SLB-751F-S1-A400
Cooling System		Air-cooled				
Ambient Temperature	℃	-20 to 40				
Pressure	MPa	0.85(0.9)-1.0		1.05(1.1)-1.2	0.85(0.9)-1.0	
	bar	8.5(9)-10		10.5(11)-12	8.5(9)-10	
Power	V	AC400				
Free Air Delivery*1	L/min	210	305	295	435	605
	㎥/h	12.6	18.3	17.7	26.1	36.3
Drive system		Direct Coupling (Connected Drive System with motor), [50Hz]				
Output	kW	2.2	3.7	4.5	5.5	7.5
	HP	3	5	6	7.5	10

Note
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Electric Buses and Trucks

Oil free complete unit

Model		ESLE-221EF-S1-D500	ESLE-371EF-S1-D500	ESLE-3712EF-S1-D500	ESLE-551F-S1-D500	ESLE-751F-S1-D500
Cooling System		Air-cooled				
Ambient Temperature	℃	-20 to 40				
Pressure	MPa	0.85(0.9)-1.0		1.05(1.1)-1.2	0.85(0.9)-1.0	
	bar	8.5(9)-10		10.5(11)-12	8.5(9)-10	
Power	V	DC500-700V				
Free Air Delivery*1	L/min	210	305	295	435	605
	㎥/h	12.6	18.3	17.7	26.1	36.3
Drive system		Direct Coupling (Connected Drive System with motor), [50Hz]				
Output	kW	2.2	3.7	4.5	5.5	7.5
	HP	3	5	6	7.5	10

Oil free Air End

Model		ESL-140EB-S1-D500	ESL-1651E-S1-D500	ESL-16512E-S1-D500	ESL-2051-S1-D500	ESL-2101-S1-D500
Cooling System		Air-cooled				
Ambient Temperature	℃	-20 to 40				
Pressure	MPa	0.85(0.9)-1.0		1.05(1.1)-1.2	0.85(0.9)-1.0	
	bar	8.5(9)-10		10.5(11)-12	8.5(9)-10	
Power	V	DC500-700V				
Free Air Delivery*1	L/min	210	330	320	460	660
	㎥/h	12.6	19.8	19.2	27.6	39.6
Drive system		Direct Coupling (Connected Drive System with motor), [50Hz]				
Output	kW	2.2	3.7	4.5	5.5	7.5
	HP	3	5	6	7.5	10

Note

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New Products

Coming soon

High durability

15,000 hrs maintenance cycle at 0.8MPa model (50% up)

High efficiency

Improve air volume (maximum 20% up)

High pressure

Maximum working pressure is at 1.3MPa

Model		ESL-180 series				ESL-220 series					
Output	kW	3.7			5.5			7.5			11
	HP	5			7.5			10			15
Max. Pressure	MPa	0.8	1.0	1.3	0.8	1.0	1.3	0.8	1.0	1.3	0.8
	bar	8	10	13	8	10	13	8	10	13	8

Our R&D and product development teams are continuously working to develop more products and solutions to meet & exceed customer expectation and set new benchmarks for the technology.

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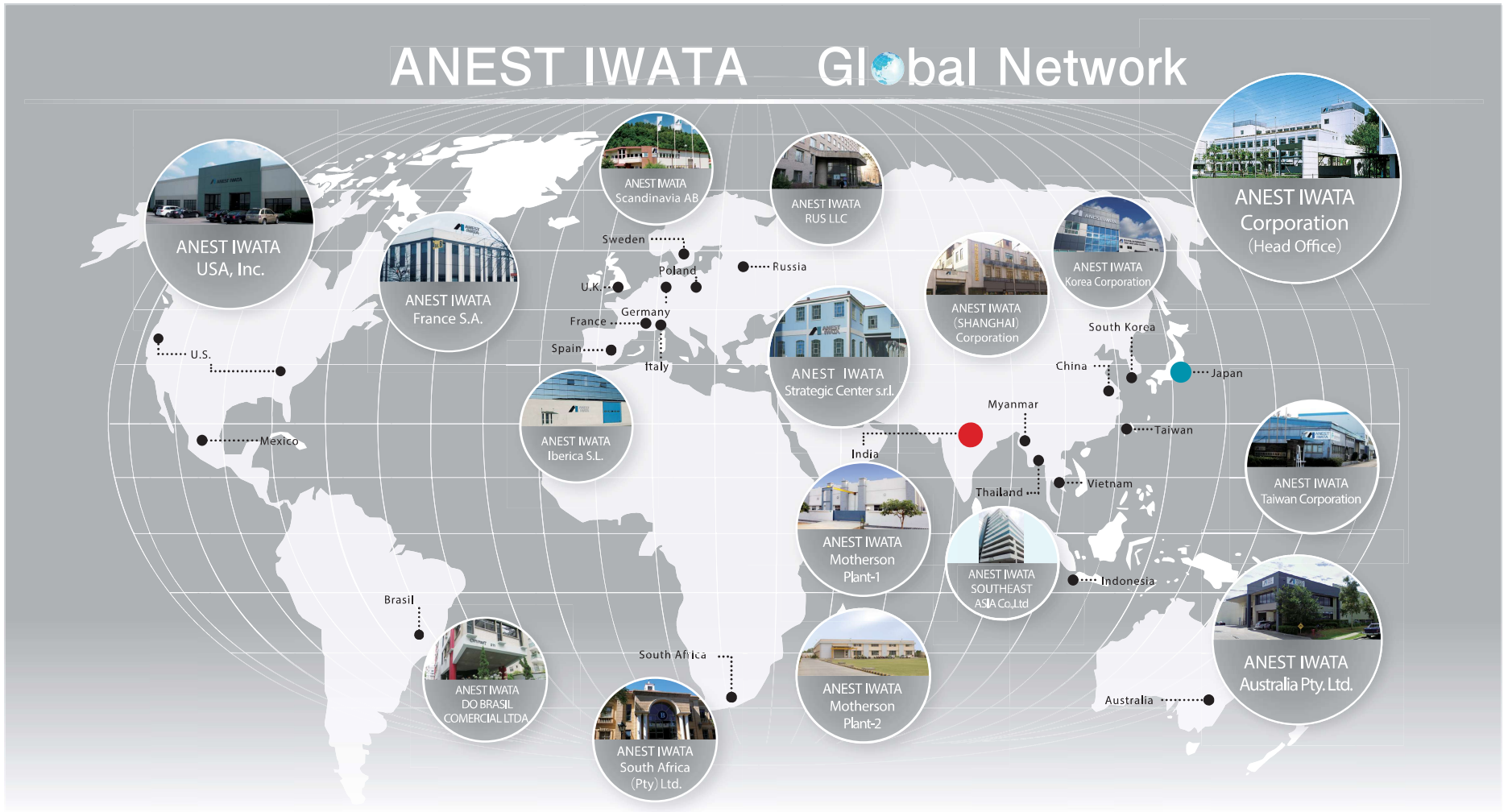
ANEST IWATA Global Network



Always Ahead With ANEST IWATA!

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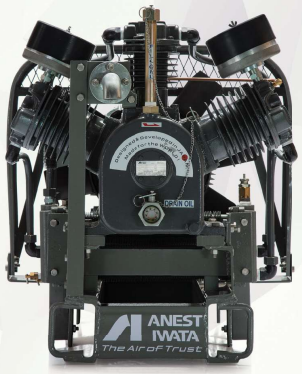
Heavy Duty Reliable Air Compressors Developed for Indian Railways



1000 LPM

For Conventional Electric Locomotives

TECHNICAL DATA - LPM 1000		
1	Model	LPM 1000
2	Type of Compressor	Base Frame Mounted Lubricated Reciprocating Compressor
3	Type of Motor	14 HP , 3-phase, T.E.F.C foot mounted
4	FAD	1080LPM(38.16cfm)
5	Working Pressure	10 Bar
6	Overall Size(L x W x H) in mm	1140 x 790 x 870

1750 LPM

For Three Phase Electric Locomotives

TECHNICAL DATA - LPM 1750		
1	Model	LPM 1750
2	Type of Compressor	W type Reciprocating, lubricated, air cooled Compressor
3	Type of Motor	20 HP , 3-phase, T.E.F.C foot mounted
4	FAD	1750 LPM (61.8cfm)
5	Working Pressure	10.2 kg/cm²
6	Overall Size(L x W x H) in mm	1410 x 810 x 745

Note
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ONLY NUMBER ONE ANEST IWATA

GLOBAL ONE

Why ANEST IWATA MOTHERSON?

- Pioneers in Technology
- Global Experience
- Japanese Reliability
- Strong After Sales Support
- Railway Compressor approved by RDSO
- Tailor Made customised products as per OEM needs
- Backed by the expertise of Anest Iwata and Samvardhana Motherson Group