



**MAGNUM**<sup>®</sup>  
*Ever Dependable*

  
TOP AIR

# WHEN IT COMES TO AIR COMPRESSORS, WE'RE THE EXPERTS

## Screw Air Compressors

5 HP to 215 HP Fixed speed ,  
15 HP to 350 HP Variable speed



20 CFM to 2000 CFM  
5 x 6 lobe German  
screw technology



**MAGNUM**  
**Screw Compressor**

# EXPERIENCE

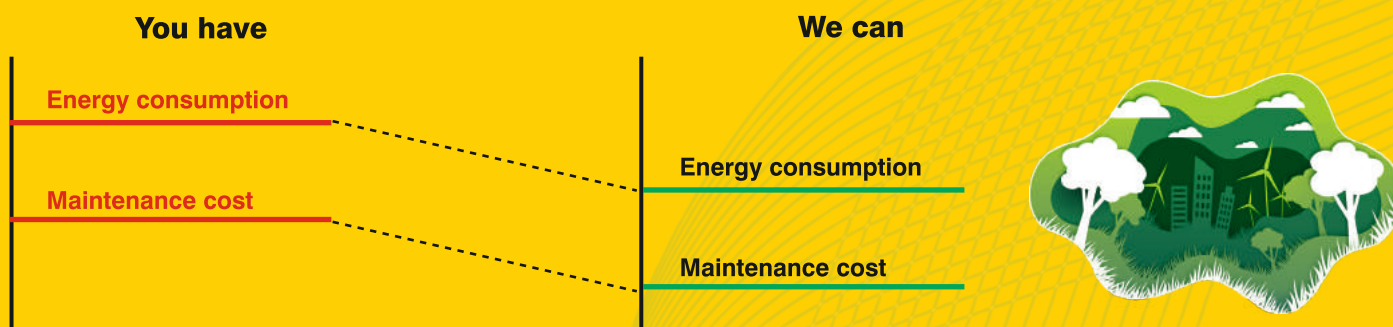
**MAGNUM** Compressors Private Limited is serving the industry with an experience of 21 years in specialized manufacturing, sales, service and spares in the field of Air Compressors. It has achieved its trusted name in Screw Compressors field with its 5:6 six lobe screw compression technology providing much better energy efficiency in fixed speed and variable speed drive types of machines. Its rugged technology is been proven by working in toughest applications like high pressure (16 Kg/CM<sup>2</sup>) laser cutting application and two stage screw technology, High volume application of railways, worst working environment of forging and chemical industry. **MAGNUM** has a complete knowhow of workable compressed air system as per ISO 8573-1: 2010 specified purity classes of compressed air via its treatment products like Air Dryers, micro dust and oil removal filters and high-tech auto drain valves with respect to particles, water and oil independent of the location in the compressed air system at which the air is specified.

## MAGNUM PREMIUM COMPRESSOR

- Premium quality and improved serviceability at the lowest initial investment.
- All energy focused designs w.r.t. CFM / Kw including Single stage fixed speed, VFD & two stage models.
- Increased reliability through its maintenance-free drive system.
- Complete environmentally friendly compressor range,
- Full range of Air treatment products reducing installation costs and floor space.
- Total control and assured efficiency with the rich featured touch screen controller

## INDUSTRY-LEADING PERFORMANCE

- Offering top performance and total reliability, our products answer your advanced needs.
- Industry-leading Free Air Delivery.
- Low power consumption and noise emission.
- Environmentally friendly Air dryer for complete compressor range, providing excellent dry air to you.
- Easy monitoring and maintenance thanks to the new easy & rich featured controller with high-definition color touch screen display.
- Increased reliability with direct drive arrangement and no use of flexible joints



## SERVING INDUSTRIES

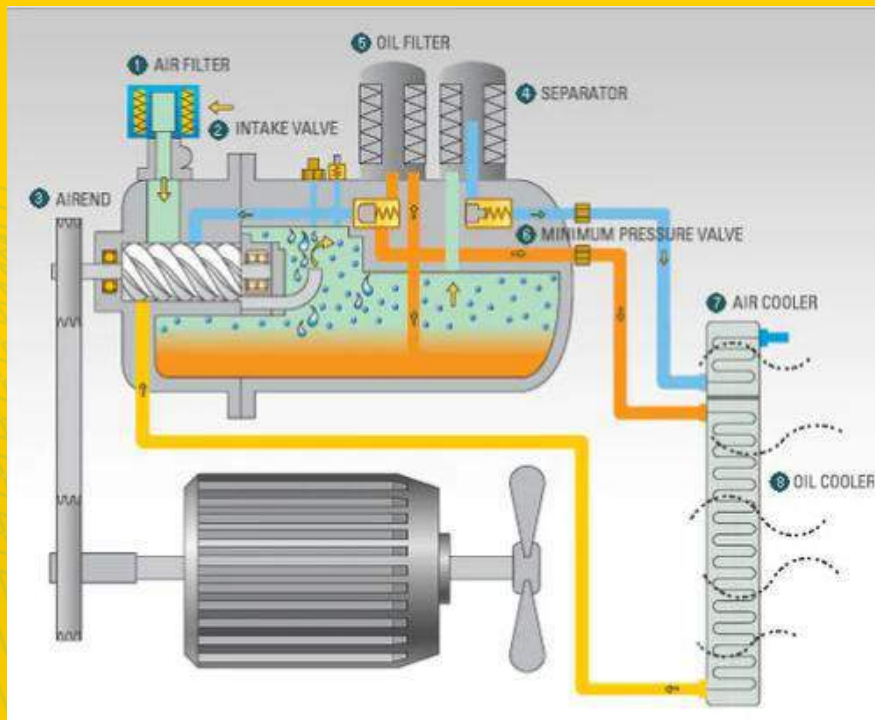
**MAGNUM** is serving the industry with its expertise product range of compressed air as like knitting, spray painting, sheeting cutting, CNC, Petro-Chemicals, construction, Blow molding, General pneumatics applications, Service equipment, STP / ETP, Ash handling, Railways, Food packaging, Beverages, forming & molding etc.

# BELT DRIVE SYSTEM ARRANGEMENTS CAUSES..



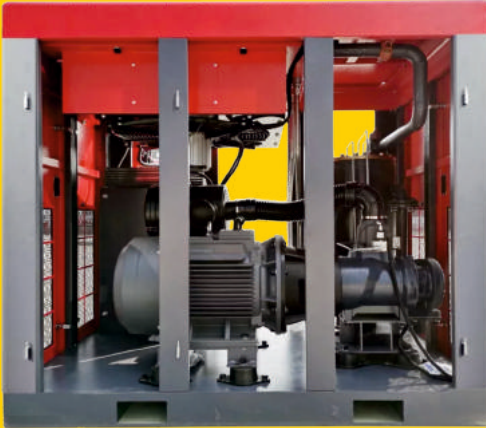
- Frequent RPM loss.
- Energy transmission loss.
- Regular tightening requirement.
- Belt wear & tear..
- Extra pull load on bearings and rotors.
- Lower bearing's & screw element's life.
- Lower oil seal & bush life.
- Belt replacement cost.
- Higher noise level.
- Frequent service visit and cost.
- Over all higher maintenance cost

Internal flexible pipes gets leak after a period by getting hard and cracks due to temperature variation, vibration & manual interruption during routine maintenance and that's leads to oil & air leaks causing, energy cost, breakdowns, production loss, maintenance spares and service charge cost.



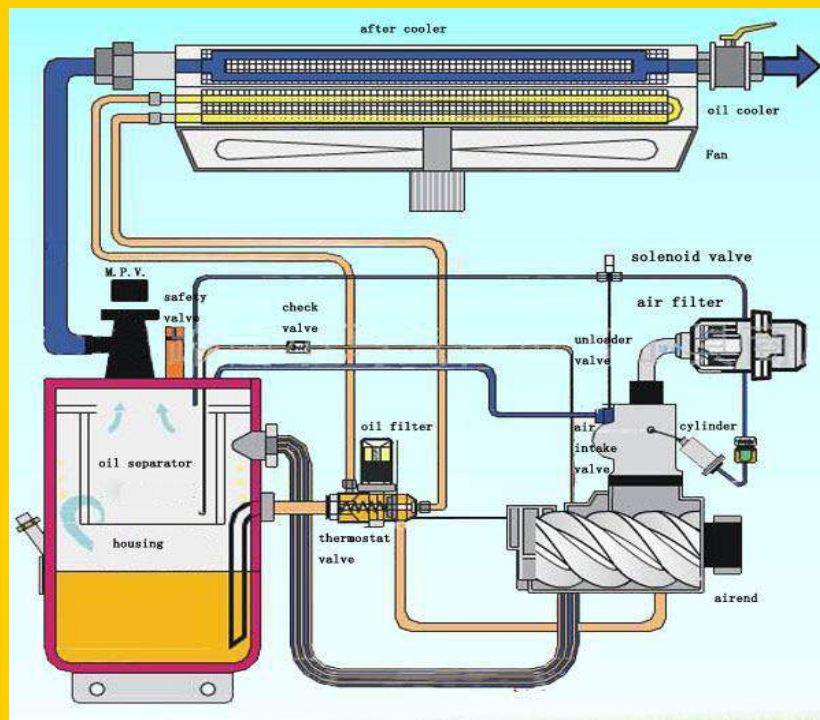
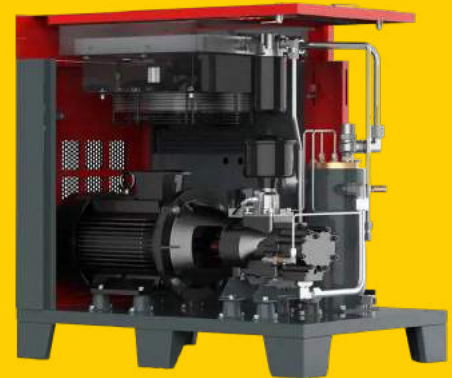
Motor shaft mounted cooling fans cause water condensation in compressor in case of low duty cycle, Thermocontrol valve become mandatory and leads to extra cost for user w.r.t. periodic maintenance cost.

# DIRECT DRIVE ARRANGEMENTS PROVIDES..



- NO RPM loss,
- NO transmission loss.
- NO Regular tightening requirement.
- NO Belt wear & tear + replacement cost.
- No extra load on bearings and rotors.
- Longer bearing's & screw element's life.
- Longer oil seal & bush life.
- Lower noise level..
- NO frequent service visit and cost.
- Over all less maintenance cost.

Internal rigid pipes gives assurance of not getting leak by temperature rise, vibration & manual interruption during routine maintenance, easy to Identify while refixing during the maintenance and these helps to prevent oil & air leaks causing, energy cost, breakdowns, production loss, maintenance spares and service charge cost



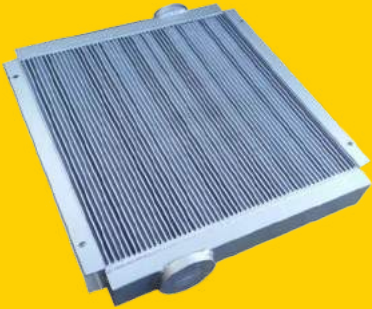
Separately mounted cooling fans runs on the command of temperature sensor, so no need of thermocontroll valve which prevent breakdowns and saves cost for user w.r.t. periodic maintenance cost.

## Efficient German Design Air-End



- Third Generation 5:6 Rotor
- Large Rotors-Low Speed Design
- Less Vibration, Lower Noise, Longer Life
- Higher power efficiency
- No flexible hoses for internal connections.
- Extra efficient Cooler Low maintenance cost.

## Extra efficient Cooler



The heat uses high quality raw materials and a unique internal channel design, which increases the heat exchange area and can effectively dissipate heat of air compressor. The inner wall of the heat exchanger is treated with corrosion protection to increase the service life and heat transfer effect. Each radiator has to pass the strict factory test & assures the reliability of preventing air compressor from high temperature to increase its performance and service life.

## Intake valve



The key component as intake valve is used from world famous brand, it can automatically adjust the air volume from 0~100% so quickly as per demand and command. It promises small pressure loss, stable action and long life consequently reduce operation cost

## Cooling Fan



The fan uses a large design to effectively enhance the fan's heat dissipation effect. The fan motor adopts a special internal design to adapt the harsh working conditions. Fan motor adopts special winding and high protection grade design to the harsh working conditions. The fan motor is controlled by the controller to realize the automatic start and stop function which effectively maintains the desired working temperature of the air compressor lubricant.

### Sectors we serves



Textile



Power Plant



Paper



Ceramic



Pharma



Water Treatment



Plastic

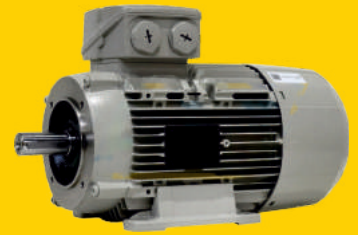


Chemical

## High Efficiency electric motor

High quality IE3 & IE4 Motor options.

NdFeB Permanent magnet synchronous PMSM options. Protection grade IP55, Insulation grade F. Minimum 5% to 7% higher efficiency than similar product. Service life minimum 15 years in standard operation conditions.



## Most intelligent & advance controller

Highly intelligent controller provides 14 types of protections. Multilingual touch screen beautiful and Intuitive Interface, easy to operate. Inbuilt service manager to keep service and fault history and reminders for service. Large memory and equipped with printer interface, it can use computer remote monitoring or multiple linkage control between air compressors.



## Spare parts

All high grade quality spares, oil filter with high density, equal pore size, small filter resistance, large flux, strong interception ability and long service life and the outer surface treated with nano electroplating.

Paper Air filter with high dust holding design and low flow resistance, Oil fine separator with advanced three-stage air-oil separation to keep oil contents below 3PPM to ensure the high quality of output air from air compressor.



## VFD Inverter controller

The standard is equipped with high frequency reactor effectively reducing the Hz converter and the external magnetic field dry reactance With high-performance current vector technology, it can easily drive Induction motors & PMSM motors too. High performance, high quality, high power density design & significant improvements in usability, maintainability, environmental protection, installation space, design standards are bound to optimize user experience. Independent air duct design, resistance to all kinds of severe environmental pollution. Rapidly track the change of pressure and control pressure fluctuations within  $\pm 0.01\text{Mpa}$ , optimal power used to accurately fulfil the necessary Air demand.



### Sectors we serves



Laser Cutting



Construction



Refineries



Foundry



Food



Hospital



Painting



Plastic Molding



Service Centers

# DIRECT DRIVE FIXED SPEED SCREW COMPRESSORS

CE Certified design & performance



**MAGNUM** direct drive compressors bring you outstanding performance, flexible operation and the highest productivity, while minimizing the total cost of ownership. With a choice of these premium compressor series you will certainly find the compressed air solution that perfectly matches your requirements. Built to perform even in the harshest environments, our products keep your production running efficiently.

Machine Model	MAGF-5	MAGF-7.5	MAGF-10	MAGF-15	MAGF-20	MAGF-25	MAGF-30	MAGF-40	MAGF-40	MAGF-60	MAGF-75	MAGF-100	MAGF-125	MAGF-150	MAGF-175	MAGF-215		
Power (Kw)	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160		
Cooling Type	Water Cooled																	
Free Air delivery (CFM) Working pressure (bar)	7 Bar	NA	30	43	70	99	116	143	199	248	270	360	490	572	741	865	1039	
	8 Bar		28	39	62	91	106	135	182	233	250	325	450	530	700	819	999	
	10 Bar		16	24	32	55	76	98	118	162	202	222	306	408	487	615	725	883
	13 Bar		13	21	30	49	65	85	102	145	181	200	275	367	435	522	619	745
	16 Bar				24	44	53	62	80	110	141	NA						
Power (HP)	5	7.4	10.1	14.7	20.1	24.8	29.5	40.2	49.6	60.3	73.7	100.5	120.6	147.5	176.9	214.5		
Motor type	Squirrel-cage induction motor																	
Start Type	Star-Delta																	
Voltage/Frequency	3 Phase 415V±5% (50Hz)																	
Insulation Class	F-Class																	
Protection Level	IP-55																	
Motor Efficiency	IE3/IE4 Motors																	
Motor RPM	2 Pole: 2800 RPM																	
Drive Type	Direct Drive																	
Lubricant volume (L)	6	6	6	12	12	15	15	18	18	24	50	50	60	90	90	90		
Noise level	65+2	65+2	65+2	68+2	68+2	68+2	68+2	70+2	70+2	70+2	70+2	70+2	72+2	72+2	72+2	72+2		
Oil Carryover	≤3 PPM																	
Dimension (mm)	900x600x800			1100x730x980			1200x880x1090			1460x980x1230			1750x1280x1590			2250x1510x1850		
Weight (Kg)	220	220	220	400	400	550	550	700	750	800	1250	1350	1650	2300	2580	3420		
Outlet connection	3/4"	3/4"	3/4"	1"	1"	1"	1"	1.5"	1.5"	1.5"	2"	2"	2"	2.5"	2.5"	4"		

Note: Free Air Delivery (FAD) is measured as per 1501217:2009 annexure C edition 4, sound level measured as per ISO1251 second addition at 1 Meter distance in field conditions, +/-2dB(a) data tolerance can be possible up to 1396 due continuous engineering improvement. The specification, design, appearance color or dimensions can be changed without prior notice. Product images in brochure are only for representation purpose only and may not match exactly with actual product.



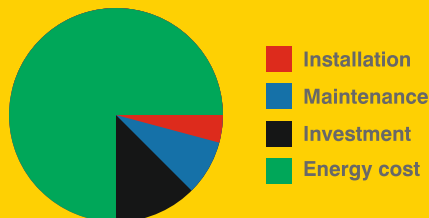
# DIRECT DRIVE VARIABLE SPEED SCREW COMPRESSORS

## Power Consumption As Per Demand

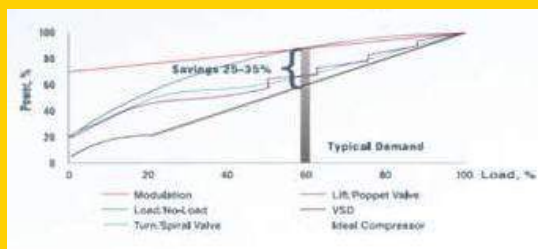
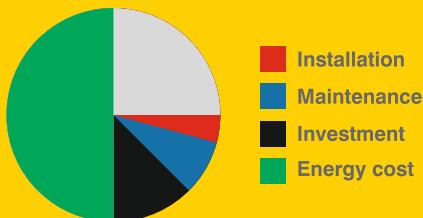
**MAGNUM** one of the ways in ASV Series compressors maximizes energy savings is with a variable frequency drive (VFD). The VFD allows you to match your energy usage to current system demands, eliminating the need to overpressure the system, so you'll save money by not wasting energy. In addition, the soft starting capability of **MAGNUM** VFD reduces inrush current requirements, decreasing your power demand increasing your energy savings and, of course, increasing your energy savings.



Without VFD



With VFD



Machine Model	MAGV-15	MAGV-20	MAGV-25	MAGV-30	MAGV-40	MAGV-50	MAGV-60	MAGV-75	MAGV-100	MAGV-125	MAGV-150	MAGV-175	MAGV-215	
Power (Kw)	11	15	18.5	22	30	37	45	55	75	90	110	132	160	
Cooling Type	Air-cooled													
Free Air delivery (CFM) Working pressure (bar)	7 Bar	70	99	116	143	199	248	270	360	490	572	741	865	1039
	8 Bar	62	91	106	135	182	233	250	325	450	530	700	819	999
	10 Bar	55	76	98	118	162	202	222	306	408	487	615	725	883
	13 Bar	49	65	85	102	145	181	200	275	367	435	522	619	745
	16 Bar	44	53	62	80	110	141							NA
Power (HP)	14.7	20.1	24.8	29.5	40.2	49.6	60.3	73.7	100.5	120.6	147.5	176.9	214.5	
Motor type	Permanent magnet Synchronous motor													
Start Type	Inverter control													
Voltage/Frequency	3 Phase 415V±5% (50Hz)													
Insulation Class	F-Class													
Protection Level	IP-55													
Motor Efficiency	IE4 Motors													
Motor RPM	2 Pole: 2800 RPM													
Drive Type	Direct Drive													
Lubricant volume (L)	12	12	15	15	18	18	24	50	50	60	90	90	90	
Noise level	68+2	68+2	68+2	68+2	70+2	70+2	70+2	70+2	70+2	72+2	72+2	72+2	72+2	
Oil Carryover	≤3 PPM													
Dimension (mm)	1100x730x980		1200x880x1090		1460x980x1230			1750x1280x1590			2250x1510x1850			
Weight (Kg)	400	400	550	550	700	750	800	1250	1350	1650	2300	2580	3420	
Outlet connection	1"	1"	1"	1"	1.5"	1.5"	1.5"	2"	2"	2"	2.5"	2".5	4"	

Note: Free Air Delivery (FAD) is measured as per 1501217:2009 annexure C edition 4, sound level measured as per ISO1251 second addition at 1 Meter distance in field conditions, +/-2dB(a) data tolerance can be possible up to 1396 due continuous engineering Improvement. The specification, design, appearance color or dimensions can be changed without prior notice. Product images in brochure are only for representation purpose only and may not match exactly with actual product.

# Electric Powered Trolley Screw Air Compressor



Electric Powered Trolley Screw Air Compressor  
**MAGNUM** electric powered portable air compressors are ideal for mining and construction sites where electric power is easily available. These portable compressors offer the benefit of quiet and emission-less operation.

An Electric Powered Trolley Screw Air Compressor is a type of air compressor that uses a screw-shaped rotary mechanism to compress air. It is powered by an electric motor and is typically used in industrial settings for applications such as powering pneumatic tools and providing compressed air for various processes.



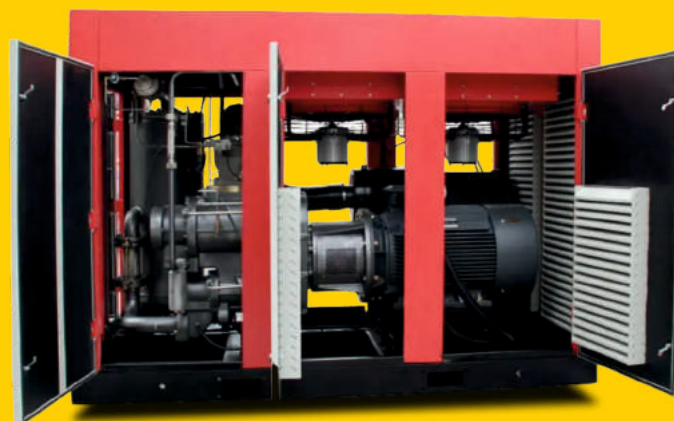
Machine Model	MAGF-55	MAGF-55	MAGM-90
Power (Kw)	55	75	90
Cooling Type			
Free Air delivery (CFM) Working pressure (bar)	8 Bar	357	470
	10 Bar	303	410
	13 Bar	300	370
Power (HP)	75	100	120
Motor type	Squirrel-cage induction motor		
Start Type	Star-Delta		
Voltage/Frequency	3 Phase 415V±5% (50Hz)		
Insulation Class	F-Class		
Protection Level	IP-55		
Motor Efficiency	IE3/IE4 Motors		
Motor RPM	2 Pole: 2800 RPM		
Drive Type	Direct Drive		
Oil Carryover	≤5 PPM		

Dimension (mm)	2500X1550X1700	2700X1750X1800	2700X1750X1800
Weight (Kg)	1300	1500	1600
Outlet connection	2"	2"	2.5"

# TWO STAGE VARIABLE SPEED BIG RANGE SCREW COMPRESSORS

**30%**

**Compressed air cost can be reduce by using  
MAGNUM two stage screw compressor.**



**MAGNUM** two stage permanent magnet motor variable speed screw compressor saves minimum 30% energy cost of your compressor operations by its specialized two stage screw element technology.

Machine Model	MAGT-30	MAGT-50	MAGT-60	MAGT-75	MAGT-100	MAGT-120	MAGT-150	MAGT-175	MAGT-215	MAGT-215	MAGT-270	MAGT-350	
Power (Kw)	22	37	45	55	75	90	110	130	160	185	200	260	
Free Air delivery (CFM) Working pressure (bar)	7 Bar	56-161	90-281	131-385	142-485	184-617	220-738	260-863	294-1032	371-1236	455-1421	471-1565	680-1940
	8 Bar	47-148	82-272	113-371	138-467	177-594	212-710	250-830	283-993	357-1189	438-1367	435-1505	654-1865
	10 Bar	40-123	67-245	82-276	110-378	145-488	183-610	209-700	258-860	308-1078	368-1078	431-1431	534-1750
Power (HP)	29.49	49.60	60.32	73.73	100.54	120.64	147.45	174.26	214.48	247.99	268.10	348.53	
Motor type	Permanent magnet Synchronous motor												
Start Type	Inverter controll												
Voltage/Frequency	3 Phase 415V±5% (50Hz)												
Insulation Class	F-Class												
Protection Level	IP-55												
Motor Efficiency	IE4 Motors												
Motor RPM	2 Pole: 2800 RPM												
Drive Type	Direct Drive												
Cooling Type	Air Cooled												
Lubricant volume (L)	18	18	18	40	40	18	24	50	50	60	90	90	
Noise level	68+2	68+2	68+2	68+2	71+2	70+2	70+2	70+2	70+2	72+2	72+2	72+2	
Oil Carryover	≤3 PPM												
Dimension (mm)	1860x1180x1430			2160x1350x1750			2650x1600x1800			3350x1900x1950		3700x2060x2150	
Weight (Kg)	1500	1500	2000	2400	2600	3250	3600	3700	4250	4650	5650	6450	
Outlet connection	1.5"	1.5"	2"	2"	2"	2.5"	3"	3"	4"	4"	4"	4"	

# PIPELINE AIR FILTER

**Function:** The pipeline Filter can filter out impurities such as dirt, oil, water, etc. Through the three-stage precision filtration of compressed air filter A, B, C, from coarse to fine, it can effectively remove 99.9% of impurities.

<b>Grade A filter</b>	Filtration impurities 3 microm, oil filtering 5PPM
<b>Grade B filter</b>	Filtration impurities 1 microm, oil filtering 0.5PPM
<b>Grade C filter</b>	Filtration impurities 0.01 microm, oil filtering 0.001PPM

## PIPELINE AIR FILTER TECHNICAL PARAMETER LIST

Model	007	015	015	035	060	090	120	150	240	300	360
Air flow (m <sup>3</sup> /min)	1.0	1.5	2.4	3.5	6.0	9.0	12.0	15.0	24.0	30.0	36.0
Connecting size	G <sup>3/4"</sup> ~1"	G <sup>3/4"</sup> ~1"	G1"~1 <sup>1/2"</sup>	G1"~1 <sup>1/2"</sup>	G1"~1 <sup>1/2"</sup>	G2"~2 <sup>1/2"</sup>	G2"~2 <sup>1/2"</sup>	G2"~2 <sup>1/2"</sup>	PN16DN110	PN16DN110	PN16DN110
Max. pressure	16 bar	16 bar	16 bar	16 bar	16 bar	16 bar	16 bar	16 bar	12 bar	12 bar	12 bar

## ONE-STOP SHOPPING, A COMPLETE SET OF SERVICE

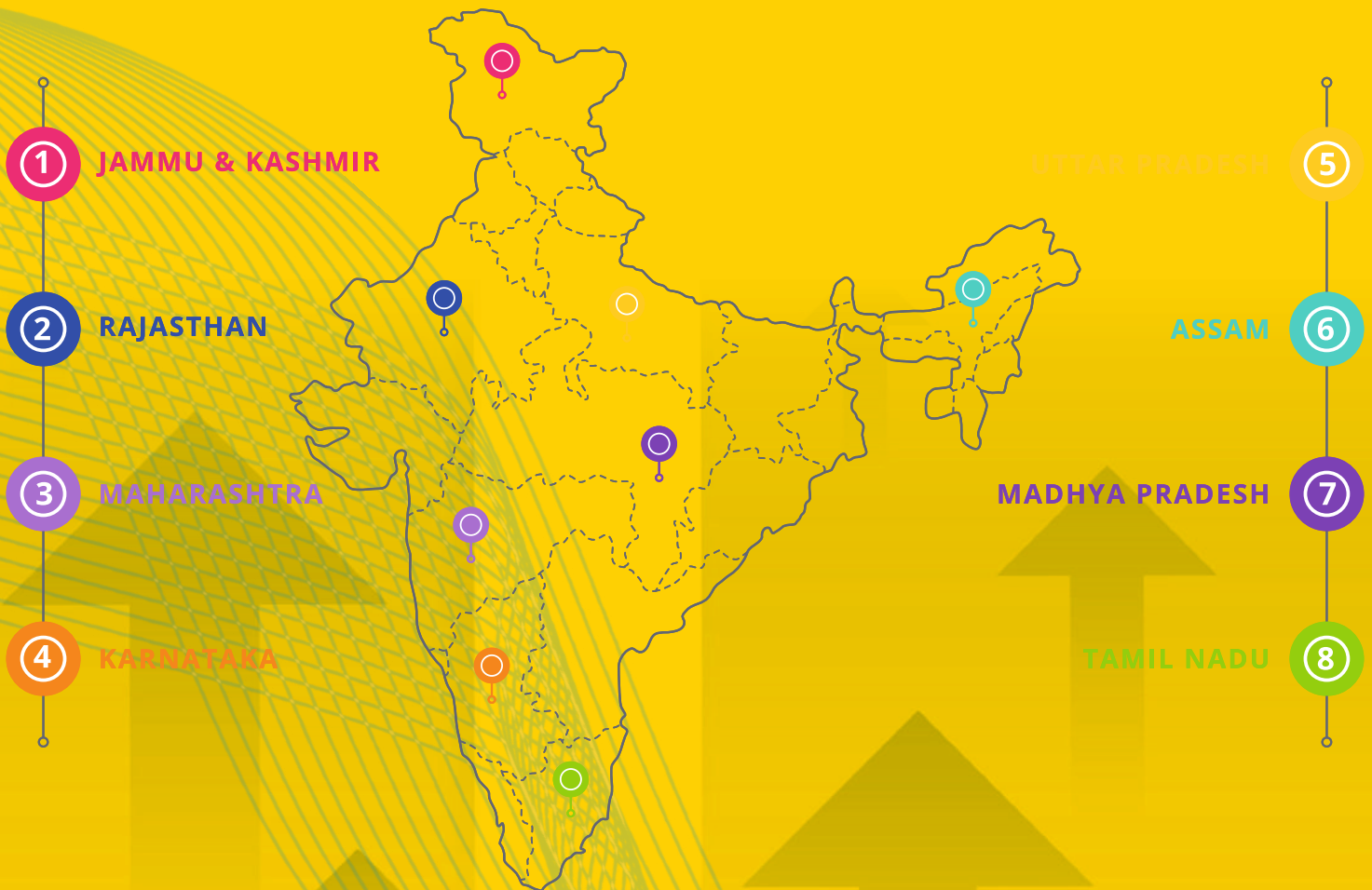


Designing reasonable and economical compressor stations for customers and providing clean compressed air, providing pre-sale consultation, complete machine sales, on-site maintenance, and spare parts supply with high quality and timely service.

# MAGNUM<sup>®</sup>

*Ever Dependable*

**We have our wide service network all across the country and abroad as well. For more details please refer to below map.**



## **SRI VARU INDUSTRIES**

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