



Since 1901 the Chicago Pneumatic name has represented reliability and attention to customer needs, with tools and compressors designed for specific industrial applications. Today, Chicago Pneumatic has a global reach, with local distributors around the world. Our people start every single day with a passion to research, develop, manufacture and deliver new products that are meant to meet your needs not only today, but tomorrow as well. To learn more, visit [www.cp.com](http://www.cp.com).

# 100% Oil Free Air Compressor

## Chicago Pneumatic: full offer, global presence



**Chicago Pneumatic Compressors**  
Sveanagar, Mumbai Pune Highway, Dapodi,  
Pune - 411012 Maharashtra, India.  
Phone: + (91) 7030531199 / 9324175141



Design  
Manufacture, Sales and  
Service of air compressors,  
Air dryers and air filters



ISO 9001 . ISO 14001  
OHSAS 18001  
Forms an integral part of each  
business process of Chicago  
Pneumatic Compressors

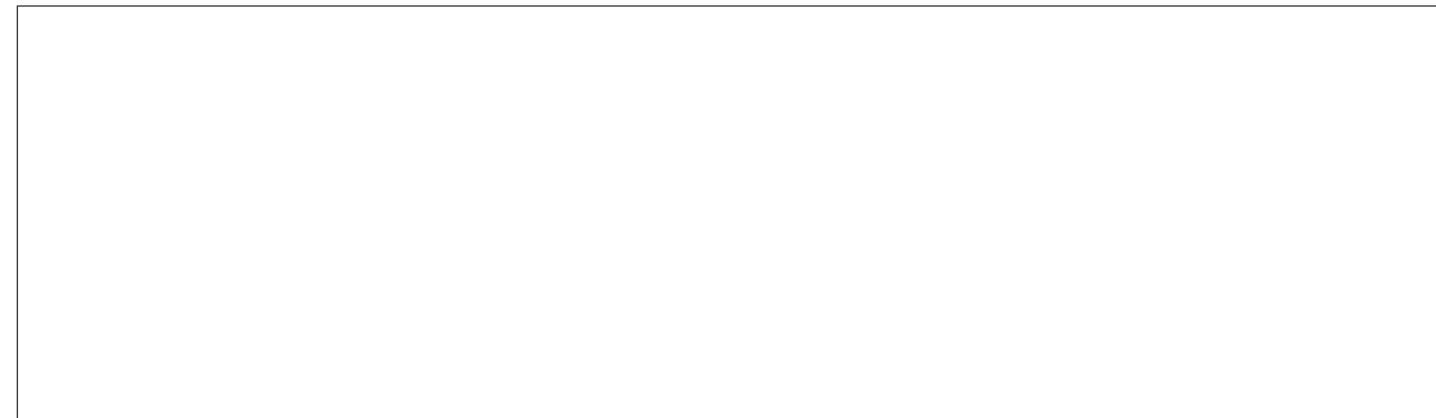
### Regional Customer Centres

BRANCH	ADDRESS	SALES ↘	SERVICE ↘	EMAIL
WEST	Rushabh, II Floor, Near American Heart Institute, Ghodbunder Road, Thane (W) 400601	93241 74565	93256 36552	sales.west@cp.com service.west@cp.com
NORTH	Unitech Business Park, Tower - A, First Floor, Block - F, Sector -41, South City -I ,Gurgaon - 122001	93124 06866	93124 17744	sales.north@cp.com service.north@cp.com
EAST	Trinity Plaza, 2nd Floor, East Wing, 84/1A, Topsia Road, (South) Kolkata 700 046	93322 90559	93322 91224	sales.east@cp.com service.east@cp.com
CENTRAL	4th Floor, Block A, Amsri Shamira Building, Old Lancer Lines, Secunderabad 500 025	8886178825	93924 06641	sales.central@cp.com service.central@cp.com
SOUTH	No.1-A, Kushal Garden, Peenya Industrial Area, Peenya 2nd Phase, Bangalore - 560 058	93677 87070	93421 44450	sales.south@cp.com service.south@cp.com

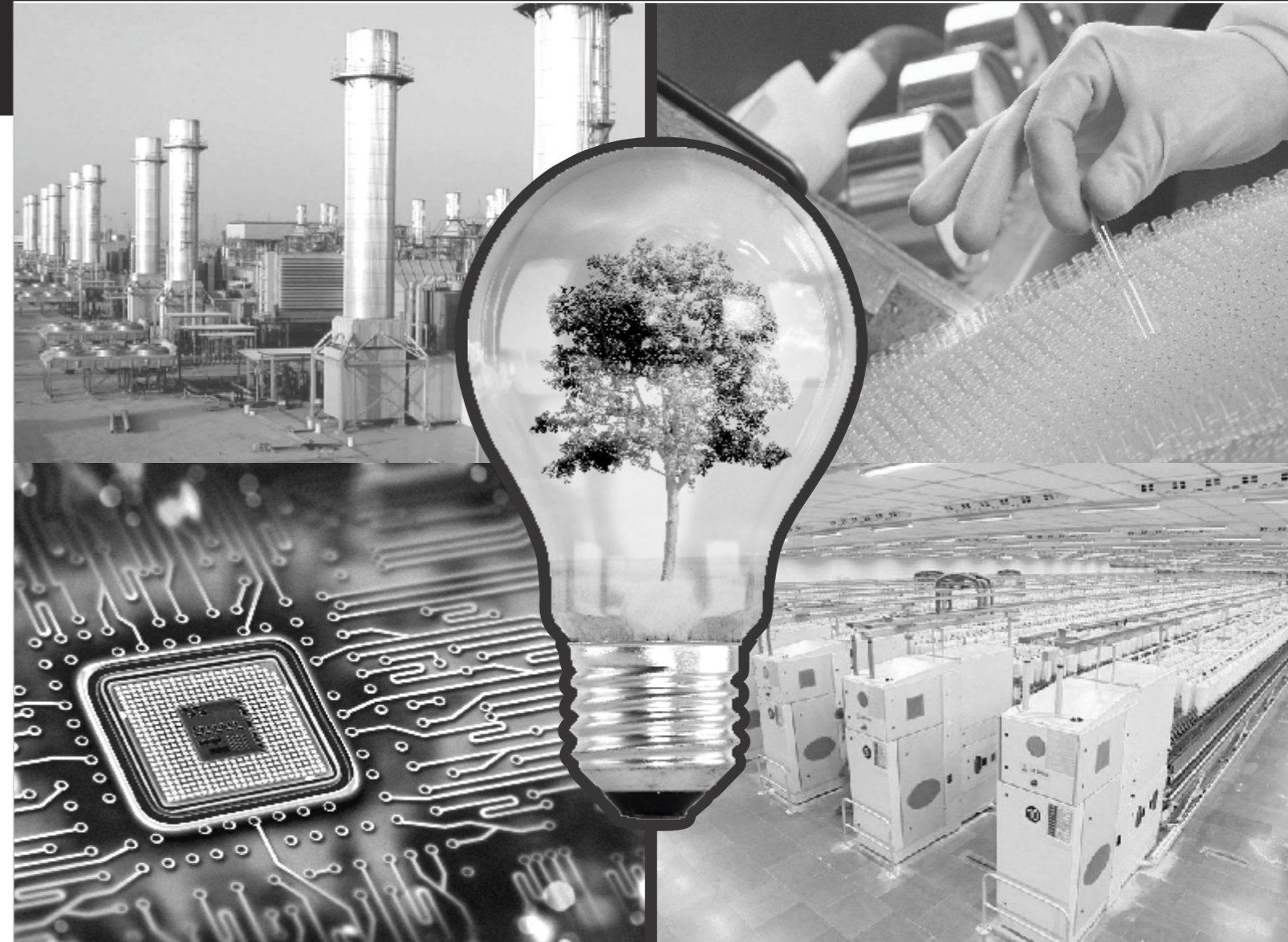
Area offices: Ahmedabad, Baroda, Chandigarh, Chennai, Pune • Resident offices: Coimbatore, Erode, Kochi, Jaipur, Raipur, Vizag

Dealer representation at: • Ahmedabad • Aurangabad • Bengaluru • Baroda • Bhubaneswar • Belgaum • Bellari • Bhopal • Chandigarh • Chennai • Cochin • Coimbatore • Dehradun • Delhi • Durgapur • Faridabad • Gandhidham • Gurgaon • Guwahati • Hospet • Hyderabad • Indore • Jaipur • Jammu • Jamshedpur • Jodhpur • Kanpur • Karimnagar • Kathmandu • Katni • Kolhapur • Kolkata • Lucknow • Ludhiana • Madurai • Mumbai • Nagpur • Nashik • Nellore • Noida • Patna • Phuntsholing • Puduchery • Pune • Raipur • Rajkot • Silvassa • Surat • Thane • Tirupur • Udaipur • Vaizag • Vapi

**Toll Free No : 1800 200 0040**



AIF/Rev1/PET/2016/Feb/3500



**People.  
Passion.  
Performance.**



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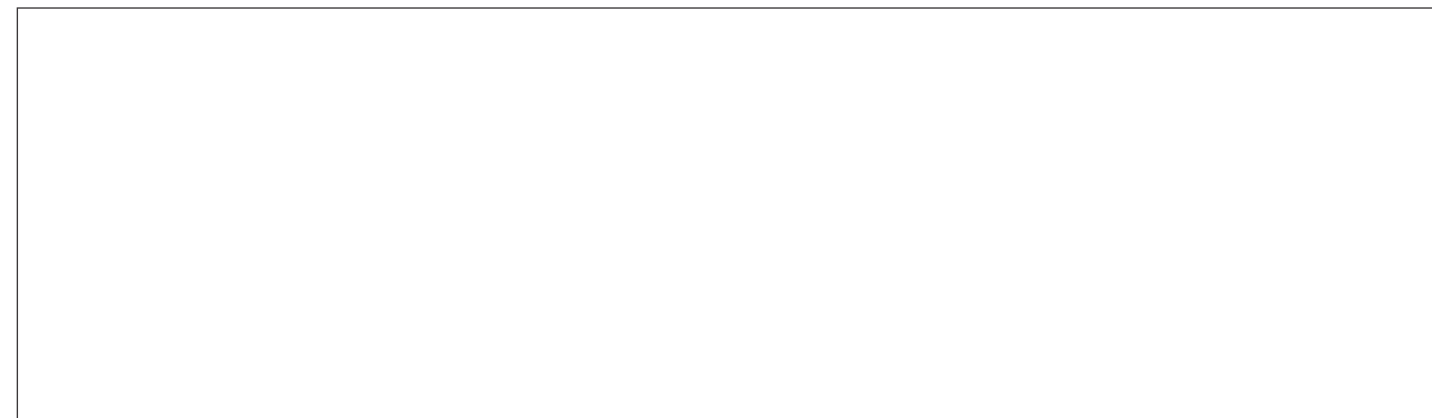
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## Over 100 years industrial presence in India

Chicago Pneumatic (CP) is a global leader in the design, manufacture and distribution of high-performance compressors. In addition to pioneering design, high impact technology and durability, Chicago Pneumatic means Customer Value. Our goal is to deliver best-in-class global service and local support to our customers through a dedicated product portfolio and a strong network of authorized distributors. We generate added value by delivering the best solution to your needs based on our decades of experience.

Today, CP is a global brand that offers products for countless applications and almost every industry. We are also proud to say that after all these years, CP still stands for reliability, durability and customer value.

## Decades of Innovation

1915	Trading operations
1957 1958	Consolidated Pneumatic Tool Company (India) Ltd was incorporated
1971	Factory at Nashik
1984	Factory at Halol
1985	New Pistons Technology Launched
1987	Chicago Pneumatic becomes part of Atlas Copco
1993	51% Foreign Shareholding Chicago Pneumatic India Ltd.
1994	ISO Certification
2001	Chicago Pneumatic merged with Atlas Copco in India
2015	Completing 100 years in India

## Choosing an 100% oil-free compressed air system

### Why a 100% oil-free compressed air system?

It is impossible to imagine present day production process sequences without compressed air. As modern day industries are increasingly imposing ever high quality demands, it is not just a matter of producing a certain quantity of compressed air but also of conforming it with a defined purity criteria.

Oil present in the compressed air mixes with the compressor condensate and other dirt to form an unwanted abrasive sludge. This abrasive sludge, often acidic in nature, rapidly wears pneumatic machinery, valves etc. causing frequent maintenance break-downs and costly air leaks.

It corrodes piping systems and can bring your production process to an extremely expensive standstill. That is the reason why most of the applications demand nearly 100% oil free air, as can be seen in the chart.

In an oil-free compressor the problem of oil is eliminated. Oil removal filtration system, as required in oil-flooded compressors results in system pressure drop hence energy loss.

It also needs recurring costly replacements of filtration elements. And you are still not very sure about the filtration efficiency.

## Experience in piston technology For core compressor unit of high reliability ...

### CP Hoerbiger valves - suited for annual one time shut-down maintenance

Specifically designed and adopted exclusively for CP compressors, they ensure uninterrupted operation and long service life. As a result, you only need an annual shut-down for maintenance.



Manufactured on computerised SPMs, the perfect concentricity and flatness provides close tolerances and ensures an aerodynamic flow for low resistance. All of which means higher reliability, Least valve losses & power savings.



Piston assembly

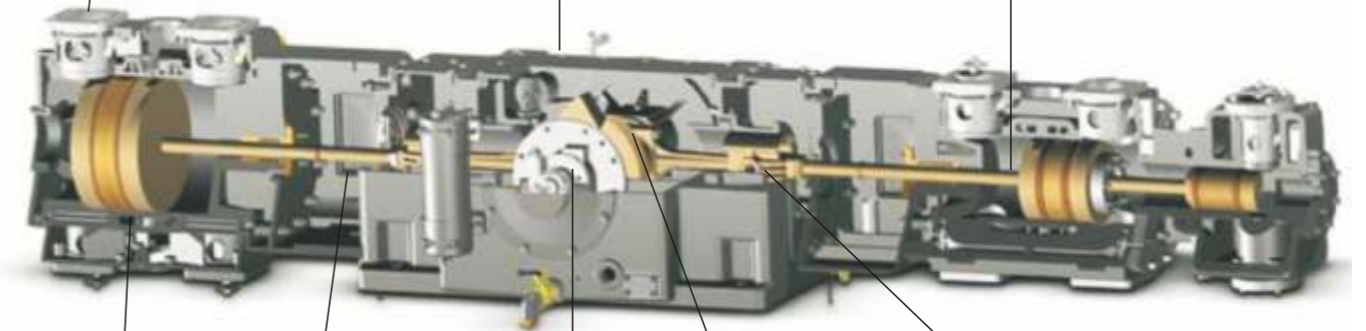
### Piston & rider rings

The ceramic filled teflon piston and rider rings are higher wear resistant and hence have longer life.

The endless type construction for rider rings give it flexibility to rotate in 120 degrees increasing life by 200%.

### Intercooler

Water cooled intercooler-shell and removable tube bundle type with efficient moisture separator.



### Light weight pistons

Result in lesser inertia forces resulting in increased power savings.



Extra long twin distance piece

### Guaranteed 100% oil free air

The extra long twin distance piece construction ensures 100% oil-free air.



One piece bearing

### One piece bearing suited for near life time operation

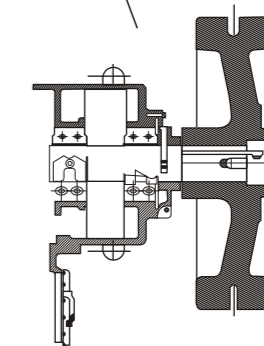
Shrunk fit bearings ensure proper alignment & clearance thereby reducing wear and tear. They have very high load

bearing capacity. Ideally suited for short stroke & higher speed piston compressors. Very high reliability & hardly needs replacement.



### Cross-slide

Crossheads with wide guides to ensure perfect guiding.



### Twin sleeve bearing for flywheel

Twin sleeve bearing on the crankshaft at the flywheel side to take the weight of the belt wheel & belt pull. Eliminates the need for Jackshaft arrangement.

### 100% Oil - Free Air



- Chicago Pneumatic oil free compression chamber ensures your demand of 100% oil-free compressed air is met to the fullest.
- Our oil-free cylinders with PTFE rings and extra-long distance guarantees oil free air for your critical process.
- The machine is packaged & tested as per BS 1571 Part-II.



### Smartest Design



Totally integrated package with our time tested oil-free piston technology comes as plug and run unit. The sound enclosure consists of a simple drop in panel with fire retardant and special sound absorbing foam, makes your work environment pleasant with the extremely low noise level

### Reliability & High Uptime



- Designed for 24x7 Industrial Applications, meets your continuous need of compressed Air.
- Time proven 2 stage compression process
- Superior Stainless steel valves, precise sizing and selection of every components for highest efficiency and reliable performance

### Foundation - Free Design



Horizontal BOP design and dynamically balanced arrangement leads to lesser vibration levels. The machine comes with Unique base frame design (PATENT APPLIED FOR) & special elastomer AVM, needing no special foundation.

### Integrated Electrical Starter & Control Panel



The professionally designed Star-Delta starter panel integrated on the compressor skid. Option of Integrated VSD Panel ensures what you pay for what you use. The design provides easy access of components & proper ventilation for trouble free operations

### Unique Cooler Assembly



- Inter/After Cooler & Radiator in single frame
- Separately replaceable
- Service friendly
- Low Maintenance cost

### Water Separator Device



- After-cooler with integrated WSD
- Efficient water separation
- No risk of condensed water in down stream

### High Efficient Drive System



The energy efficient TEFC design motor is designed for 50 Deg C Ambient condition with IP 55 protection. These motors are rated for continuous duty and low speed design for longer life. Intelligent 3 part belt guard design (PATENT APPLIED FOR) ensures easy assemble and dismantle process.

# FEW INDUSTRIES WE CATER



## POWER PLANT

- Power plants are a source of vital energy to industrial & Domestic Consumers.
- Cost effective & high reliability supply of compressed air for continuous duty application.
- Our compressors provide highly reliable & durable source of compressed air for fly ash handling & silt blowing.



## OIL & GAS

- 100% Oil Free Air for Instrumentation & control system
- Strong service network support provides 24 x 7 assistance.
- Customized package unit meets your unique requirement of system



## PHARMACEUTICALS

- 100% oil free, clean, quality air for all kind of pharmaceutical applications i.e. Jet Mill, Process air, Fermentation, packaging, coating, filling, capping, cleaning & instrumentation etc).



## TEXTILE

- Quick, Fully Integrated & reliable one stop solution for Spinning, Texturizing, conning, weaving & process air.



## ELECTRONICS & SEMICONDUCTOR

- Zero Oil- Zero Risk
- Chicago Pneumatic compressor doesn't need to inject oil to compressor chamber. Therefore, no oil has to be removed and there is no risk of contamination in highly critical applications such as purging, cooling, bonding & assembly process.



## CEMENT

- Ideal system for pneumatic conveying, dust collector, bag filtration, Instrument Air, packing & process air.
- High purity air imparts high productivity, eliminates downtime.
- High reliability ensures production process will stay up & running day in day out.



## FOOD & BEVERAGES

- Chicago Pneumatic 100% oil-free air compressors serve a multitude of applications in the Food and Beverage industry. Whether you use air for fermentation, blending, sorting, filling jars & bottles, aeration or diffused aeration etc.

## Smarter Control

### Advanced 5<sup>th</sup> Generation Microprocessor Control



Px Series machines are extremely energy efficient. The smarter controller adapts to your air requirements and ensure that process is extremely flexible & efficient. Different capacity controls are possible with this advanced unit.

Stepped Control- Double acting cylinders allows the flow to be adjusted by clamping one or several suction valves in the open position. Stepped capacity control of 0-100% is possible with more advanced control as per process requirement.

Bypass- The use of Pressure control valve gives an extremely stable pressure. Narrow pressure band gives flexibility to deliver the performance at optimum regime.

Variable Speed Drive- Pxi Series machines with double acting cylinders, Variable Speed drive (VSD) capacity control allows step less capacity control, optimizes energy consumption and ensure process stability.

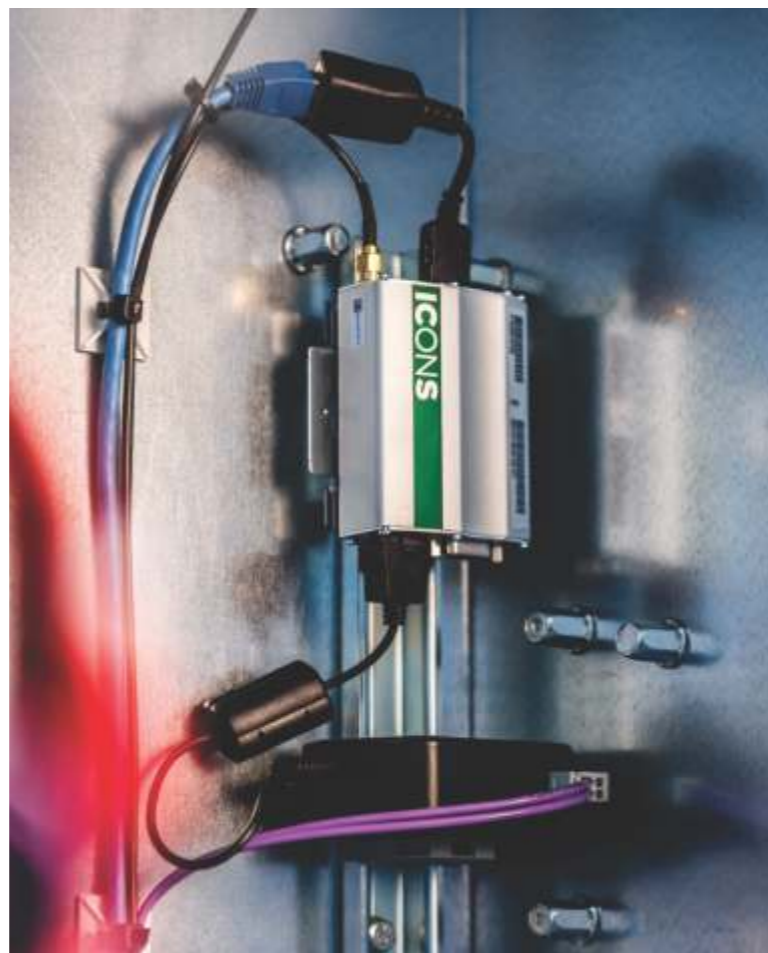
### Online & Mobile monitoring:

Monitor your compressed system from remote/local

- High resolution display gives an easy readouts of the equipment's running conditions.
- Clear icons and navigation system provides you fast access to all important settings and data.
- Easy monitoring of equipment running conditions and maintenance schedule; scales the uptime of machines.
- Precise operation of equipment to deliver reliable compressed air to your vital process.
- In Built remote control & notification functions, including simple to use Ethernet based communication.
- Support for 31 different languages, including character based language

## ICONS : Always Connected

- Always be connected all times with Icons that helps to optimize your compressed air consumption and saves on cost /energy.
- It offers complete insight of your compressed air network through secured network.
- Protecting your equipment on anticipating potential problems by warning you up-front.

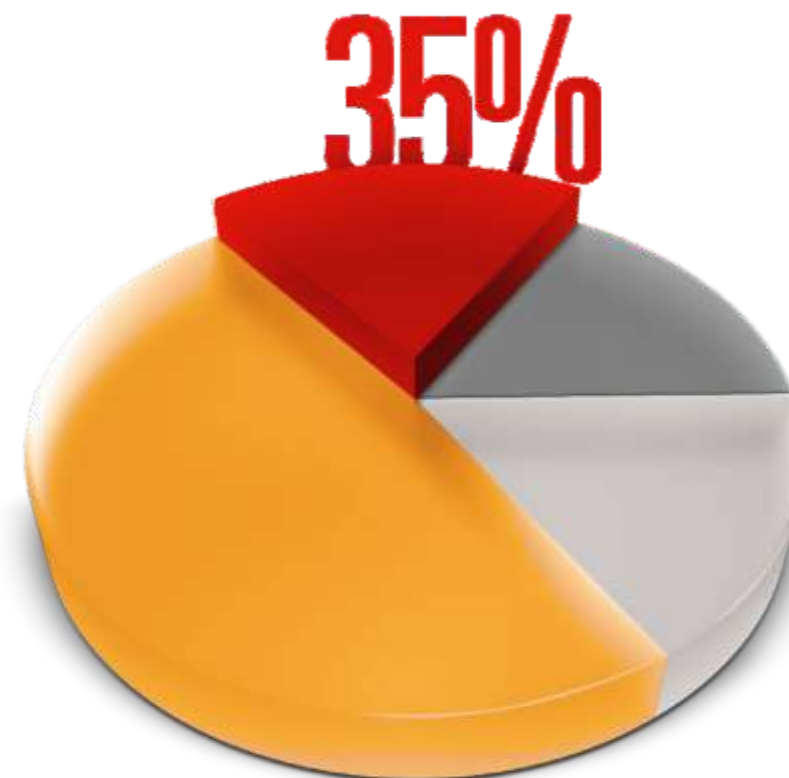


## Inverter - Minimising Energy Cost

Variation in air demand almost 90% of all installations. In almost every production process, air demand fluctuates depending on different factors (time of the day, week or even month).

Detailed analysis and studies of compressed air demand cycle show that 80% of all compressor installations have substantial variations in air demand. Only 20% of all installations have a more stable air demand. In this scenario, inbuilt Inverter drive compressors save substantial energy.

Energy consumption typically represents over 80% of a compressor's Life Cycle Cost. To reduce costs and provide innovative solutions, We at Chicago Pneumatic Compressors have pioneered the Inverter drive technology. Inverter drive provides major energy savings, while protecting the environment for future generations. Our continual investments in R&D, enable us to offer the widest range of integrated Inverter drive compressors for the market.



- Energy
- Energy savings with Inverter
- Investment
- Maintenance

Inverter technology precisely follows the air demand by automatically synchronizing motor speed. This results in large energy savings of up to 35%. The Life Cycle Cost of a compressor can be cut down exponentially. In addition, lowered system pressure with Inverter minimizes energy use across your production drastically.

# Compressed air package configured to suit every need



## PET

Capacity:	55 -1519 cfm
Inlet Pressure:	Atmospheric
Working Pressure:	32-42 bar
Motor HP:	25-540

## HX- Vertical

Capacity:	42 -136 cfm
Inlet Pressure:	Atmospheric
Working Pressure:	7-9-10 bar
Motor HP:	15-30



## HN2-BoP

Capacity:	576 -1182 cfm
Inlet Pressure:	Atmospheric
Working Pressure:	2.5-4-7- 10 bar
Motor HP:	120-215