

# Flexible Drive Rotary Screw Air Compressors

CPA 10-20 HP



People.  
Passion.  
Performance.

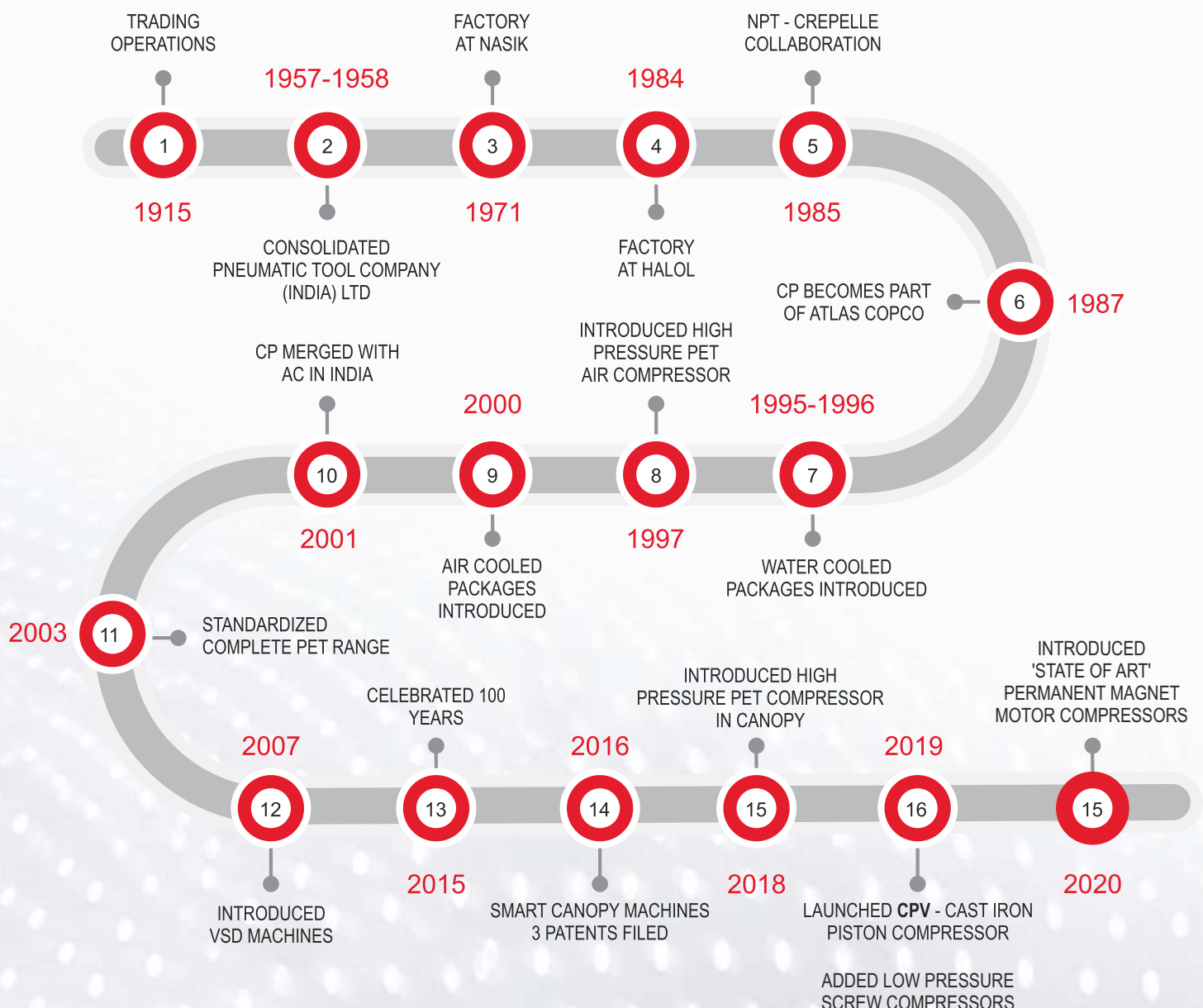


Chicago  
Pneumatic

# Over a 100 Years of Industrial Excellence 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 meet 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.



# Designed for Tropical Conditions

- Pre-tensioned flexible drive
- Pre filter panel
- Pressurized canopy
- Natural ventilation passage
- Effective cooling

## Screw Element



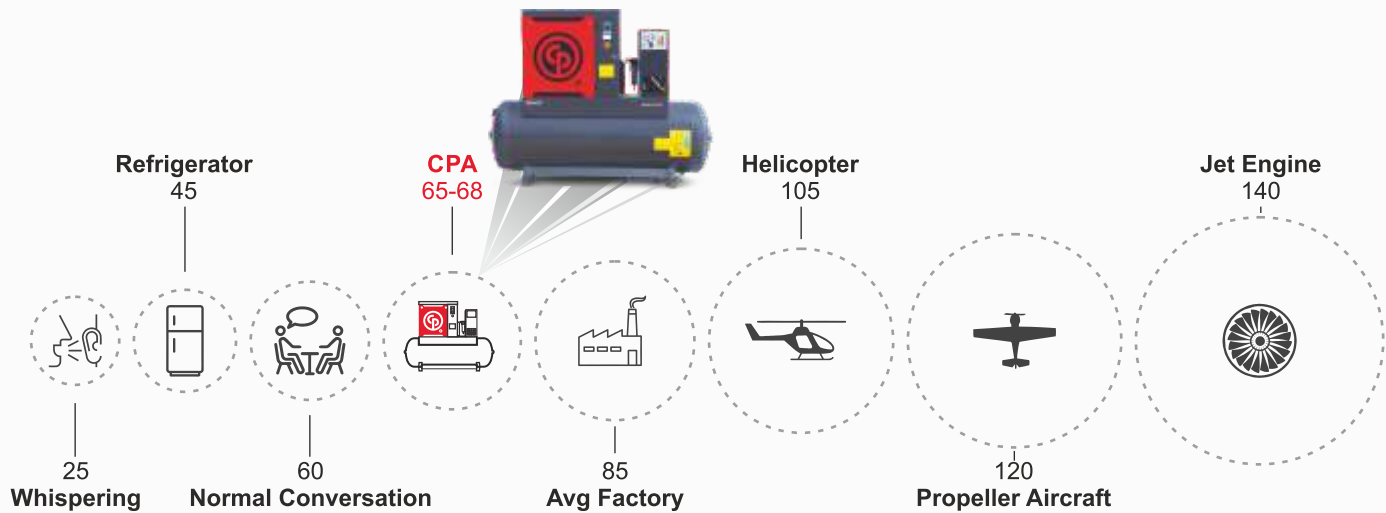
## Why Tropical Design?

	European Condition	Tropical Condition
Temp	Max 20° C Min Sub Zero	Max 50° C Min Varying
Environment	Dust Free, Pressurized & Ventilated	Dusty Industrial
Mindset	Use & Throw	Use & Continue Using

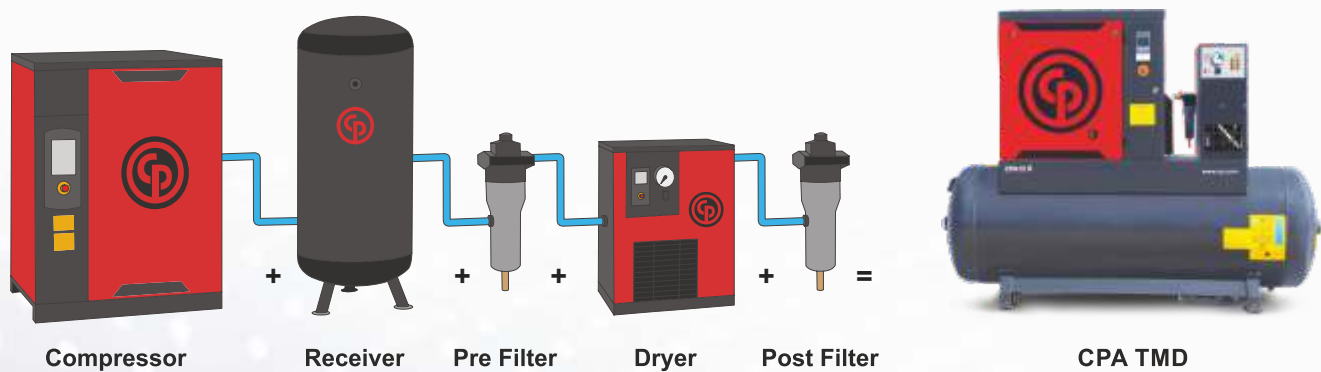
## Key Benefits:

- Excellent performance
- Assured reliability
- Longer life
- Continuous duty operation
- Lower oil residual in compressed air
- Pulsation-free air

**Quiet Operation** • Rotary Screw Technology • Sound Enclosure Helps In Noise Reduction



## A Complete Compressed Air Package - CPA TMD 270/500



# Product Features - Flexible Drive Rotary Screw Air Compressors



**Screw Element**  
Robust and Silent



**ES 4000**  
24x7 Compressor  
Surveillance  
User Friendly



**Oil Separation System**  
3 Stage Effective  
Oil Separation



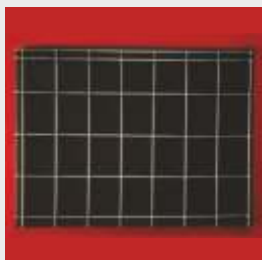
**Electrical Cubicle**  
Monitors Power  
Management



**CPA Unit  
Performance**  
100% Factory  
Tested & Certified



**Air Inlet Duct With Fan**  
Guides Air Flow  
Through the  
Compressor



**Pre filter Panel**  
Breathes in  
Dust-Free Air



**Electric Motor**  
High Efficiency  
TEFC Motor



**Combination Cooler**  
Aluminium With Fine  
Fins Design For  
Efficient Cooling



**Flexible Drive**  
Reliable and  
Relentless Operation

## Unique Design - Pressurized acoustic canopy

- Pre filter avoids any dust entry inside the canopy
- Pre filter maintains cleanliness inside canopy
- Pre filter enhances suction filter element life
- Natural ventilation passage provides smooth and consistent flow of cool ambient air
- Pressurized canopy interior avoids any suction pressure drop and decreases compressor ratio



### Inverter Drive (IVR)

The IVR Drive in the compressor, which electronically adjusts the motor's rotation speed, only consumes the energy needed to produce the compressed air required by your application.



IVR Saves Over 30% Power and Thus Ensures Faster Payback

Regulates Pressure Within 0.1 Bar.

Built-in IVR Drive for Maximum Reliability

Assures Constant Power Factor

Factory Tested Machine at Critical Speed to Minimize Vibration/ Resonance Risk

Assures Reduced Carbon Dioxide Emissions

Eliminates Unloading Power to Almost 0%

Helps Save the Environment



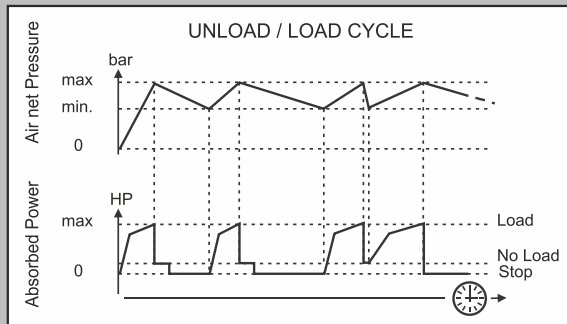
# Energy Saving With Electronic Regulation

## Electronic Regulation

The ES 4000 electronic controller groups all the command controls and alarms of the machine. This device allows management of all running and control functions of the machine; eliminating need for supervision during working.

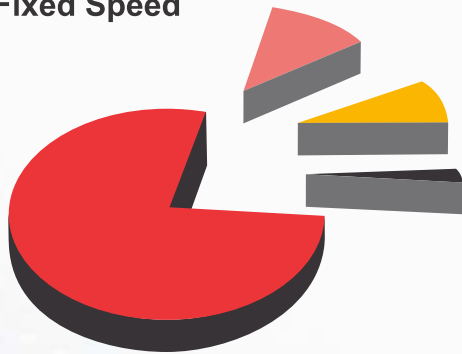


Energy Saving



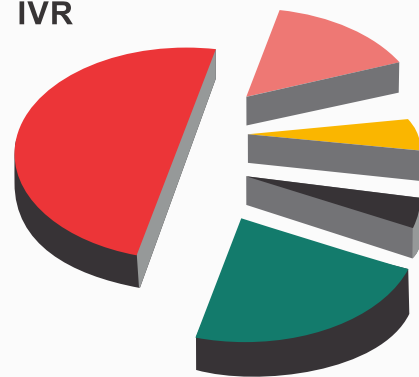
## Life Cycle Cost

### Fixed Speed



- Installation 1%
- Maintenance 4%
- Investment 7%
- Electrical Consumption 88%

### IVR



- Installation 2%
- Maintenance 2%
- Investment 9%
- Electrical Consumption 57%
- Savings 30%

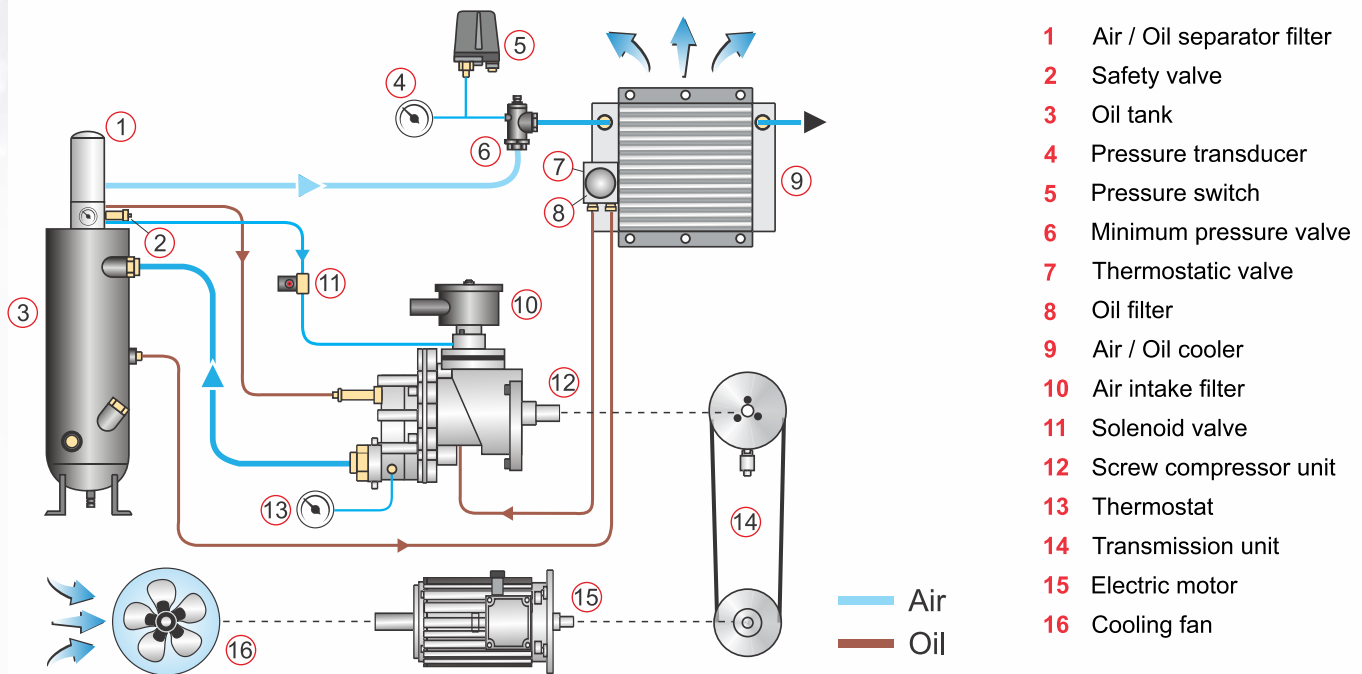
## Reducing electricity consumption means:

Lower Power Costs  
= **SAVINGS**

Lower Power Consumption  
= **ENVIRONMENTAL  
FRIENDLINESS**



# Flow Diagram



## Product Variants - The CPA Range

### CPA Floor Mount



- Small footprint
- Plug to existing receiver

### CPVR TMD 500



- Built-in Inverter Drive (IVR)
- Saves upto 35% power
- Reduced carbon footprint

### CPA Tank Mounted Compressor with Dryer and Filter (270 and 500 L tank)



- For moisture free and oil-free applications
- 270 series - For steady air demand
- 500 series - For fluctuating air demand

### CPA Tank Mounted Compressor (270 L tank)



- All-in-one compact solution
- Smaller footprint and ease of installation

# Technical Data

## Fixed Speed

Model	Motor HP	Capacity CFM @ Bar			Noise db (A)	End Connection	Weight (KG)				L W H in mm
		7	10	13			FM	TM	TMD	TMD	
CPA 10	10	45	38	30	68	1/2"	180	245	300	365	FM : 855 X 590 X 1090 TM 270 : 1600 X 630 X 1340 TMD 270 : 1550 X 630 X 1340 TMD 500 : 1900 X 630 X 1470
CPA 15	15	63	52	44	68	1/2"	195	265	320	385	
CPA 20	20	73	66	53	68	1/2"	205	270	335	400	

## Inverter Driven

Model	Pressure (In Bar)	Motor		Capacity CFM @ Bar		Noise db (A)	End Connection	Weight (KG)	L W H in mm
		HP	kW	Min	Max				
CPVR 15/7	7	15	11	23	58	68	3/4"	230 FM Version 765 TMD 300 Version 765 TMD 500 Version	FM : 851 X 590 X 1090 TMD 300 : 1485 X 620 X 1640 TMD 500 : 1860 X 620 X 1640
CPVR 15/10	10	15	11	20	50	68	3/4"		
CPVR 15/13	13	15	11	17	43	68	3/4"		

### Note:

1. Unit performance measured according to ISO 1217 Ed 4 2009.
2. Noise level measured according to ISO 2151/ Pneurop / CAGIPN8NTC2
3. Receiver capacity options are 270 and 500 L (For TMD)

**FM** : Floor Mounted

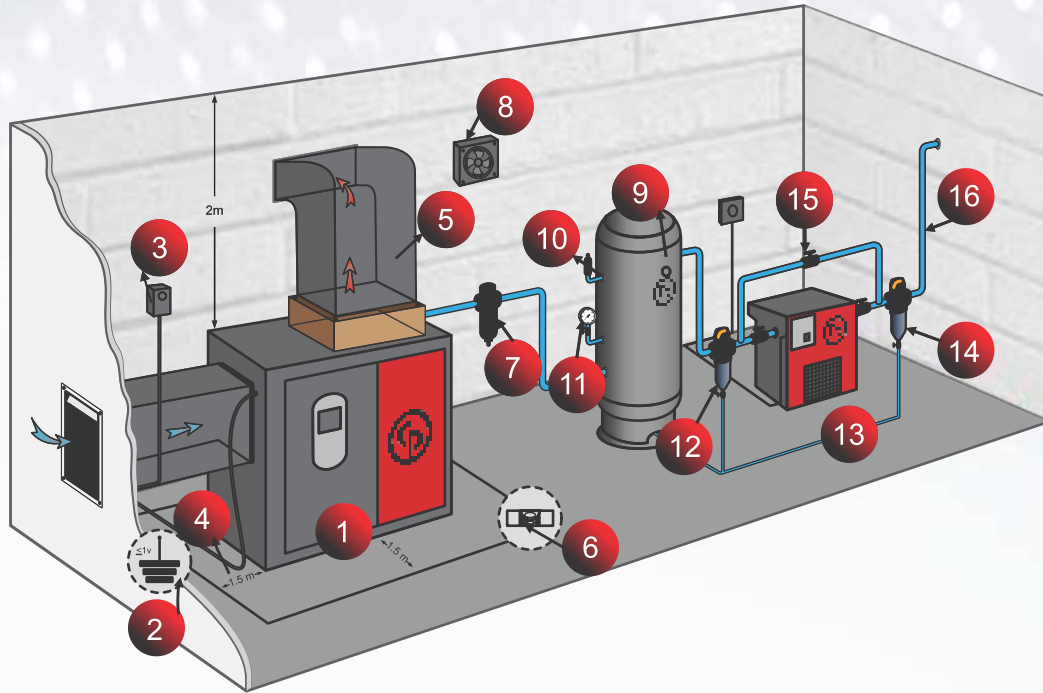
**TM** : Tank Mounted Compressor (270 L)

**TMD** : Tank Mounted Compressor with Dryer and Filters (270 and 500 L)





# Maintenance and Installation Guidelines









- |                            |                      |                   |                  |
|----------------------------|----------------------|-------------------|------------------|
| 1 Compressor               | 5 Exhaust            | 9 Air receiver    | 13 Dryer         |
| 2 Earthing                 | 6 Floor leveling     | 10 Safety valve   | 14 After filter  |
| 3 SFU (Switch Fusing Unit) | 7 Moisture separator | 11 Pressure gauge | 15 Bypass valve  |
| 4 Copper cable             | 8 Exhaust fan        | 12 Pre filter     | 16 AirNet piping |

## Air Xtend

Have Complete Peace of Mind With **Air Xtend**,  
Our Extended Warranty Plan on **Screw Element**



Be it any application, the reliable operation of your compressor is key. With our AirXtend, maintenance is done at the right time by professionals who know your equipment inside and out.

-  Have a complete peace of mind with Airextend, our extended warranty plan on Screw element.
-  Using original parts and lubricants will uphold your system's energy efficiency and prevent pressure drop as all consumable are replaced on time using genuine parts.
-  High uptime and energy efficiency reduce the operating cost of your compressor. In addition, SCOPE gives you maximum control over your budget.
-  We give you top priority and support in case of urgent repair, after all you are an Extended Warranty + customer.
-  No unnecessary spending.
-  We order advanced and guaranteed parts to avoid the piling up of the inventory.



\*For more details contact service representative

To know more visit us at  
[www.cp.com/en-in/Compressors](http://www.cp.com/en-in/Compressors)

# Preferred Choice Across Multiple Industries



And many more...

## Service Features

### Quality products ably supported by quality service!

Chicago Pneumatic compressors are supported by a full range of service kits that come complete with all necessary genuine parts and lube oil.

- Genuine parts guarantee, extended compressor service life and reliability
- Cost-effective service solutions based on optimum service intervals
- Save time and administration - no need to determine individual service parts
- Off-the-shelf availability
- Chicago Pneumatic genuine oil is specifically designed to offer sustainable lubricant properties even under demanding operating conditions.



We value your feedback and endeavour to continuously improve our products and services.

Service ahead of time.  
Original parts, your quality assurance.





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).

## Chicago Pneumatic : Full Offer, Global Presence



TMD



CPVS



WIS AIR



Spiral AIR



PPNGs



TAS



CPV

Chicago Pneumatic Compressors  
Sveanagar, Mumbai-Pune Highway, Dapodi,  
Pune - 411012, Maharashtra, India.



Design  
Manufacturing, 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

### Dealer Network

**100+**  
**Distributors**  
present across India

*Chicago Pneumatic compressors have a strong distribution network throughout India. Operating from almost every state ensures effective reach of products and services to end users across the country. Around 75% of these distributors have been associated with us for more than 15 years.*

*To find your nearest distributor please visit [www.cp.com](http://www.cp.com)*

### Regional Customer Centers

West	Mumbai
North	Gurgaon
East	Kolkata
Central	Hyderabad
South	Bengaluru

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

**Powered by a strong  
aftermarket support  
at your doorstep**



**Toll Free No.: 1800 120 110040 | Email : [customer.care@cp.com](mailto:customer.care@cp.com)**

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