



# ACE FLOW®

Konzepts Pvt. Ltd. >>>>

Engineered to German Precision

ISO 9001:2015 & ISO 45001:2018 CERTIFIED COMPANY

Incorporated in the year 2019 as KRIC Concepts Private Limited and renamed as ACE Flow Konzepts Private Limited in the year 2020, has taken over the business of KJN Enterprises, which was in the business of manufacturing pneumatic products since the year 1982 with two foreign JVs.

KJN Enterprises had over 250+ valued customers and an experience team of more than 12+ employees. KJN Enterprises was known to be amongst the finest established manufacturers and traders of the wide and varied range of pneumatic products.



ACE Flow Konzepts Private Limited took over KJN Enterprises with a vision and mission to achieve excellence in engineering the whole gamut of pneumatic products with German precision.

Pneumatic products uses compressed air to solve many problems with blowing, drying, cleaning, conveying and cooling. Pneumatic products are the back bone of automation and serves a variety of sector like Food & Beverages, Steel, Automobiles, Construction, Railways, and Engineering Industries.

The core mission at ACE FLOW is to improve our offerings to our customers with Single-minded Focus to deliver highest quality products 'ON TIME EVERY TIME'. ACE FLOW always lookout for the latest process and technologies for manufacturing of the products.

Within Six months of takeover from KJN Enterprises, ACE FLOW is an ISO 9001:2015 & 45001:2018 certified company and have successfully tied Up with AIRMASTERS Technology SL, Spain, for manufacturing and distribution of their varied range of products for entire South East Asia. ACE FLOW is also the distributor of NAVCO (USA) Pneumatic Piston Vibrators in India.



			
AIR BLOW GUN	PNEUMATIC PRESS	PNEUMATIC CYLINDERS	PNEUMATIC VALVES

## AIRMASTERS PRODUCTS

			
AIR KNIFE	AIR AMPLIFIERS & AIR JETS	AIR FLOW VAC	AIR WIPE - CIRCULAR AIR KNIFE
			
CABINET PANEL COOLER	TOOL COOLER	VORTEX TUBE	AIR NOZZLES & HAND VAC

## NAVCO PRODUCTS

			
BH-1.00	BH-1.25	BH-2.00	BH-3.00
NAVCO PNEUMATIC PISTON VIBRATORS			

ACE FLOW Air Blowguns are ideal for blowing applications in industries, auto garages, textile units, manufacturing workshops etc. These blowguns are used to blow off dirt, dust, oil etc from shop floor, crevices, geometric patterns and from any hard to reach places.

These are available in three models -

1. Push-Button Blowgun.
2. Lever type Blowgun
3. Lever and Nozzle Blowgun

Manufactured from solid aluminum bar-stock, nitrile seals and brass internals. These blowgun come with a 3 mm hole standard nozzle.

Other options available are: 4" long SS Nozzle, 12" long SS nozzle & a range of air amplification nozzles attached with the blowgun.

These blowguns don't have any plastic parts.



## PNEUMATIC PRESS

Used in practically all type of industrial setting. Some of the common applications of a Pneumatic Press are: Compacting, Blanking, Extruding, Marking, Cupping, Deep Drawing, Flaring, Punching, Riveting, Notching, Cutting, etc. At ACE FLOW, we have been manufacturing presses since inception of our firm.

Four Types of Presses are as follows:

1. Single Pillar Pneumatic Press
2. Two Pillar Pneumatic Press
3. Four Pillar Pneumatic Press
4. Toggle Press
5. Dead Weight Pneumatic Press

Different Options available with these Presses

- Daylight, stroke, base area and base plate construction to suit customer's requirements
- Air filter pressure regulators, lubricators
- Protecting guard with or without inter-locking
- Punch holder to suit customers requirement
- Ram rotation prevention device
- Two hand safety control box
- Variety of actuating valves for manual pilot or electrical actuation
- Sequencing units, timers and other accessories





ACE FLOW manufactures a variety of pneumatic cylinders. These can be broadly classified in three categories.

## 1. Standard Cylinder:

Our standard range of cylinders is available in Bore sizes ranging from 25mm to 350mm diameter with strokes starting from 15mm to 1500mm long.

## 2. ISO 6431 Cylinders:

ISO 6431 Pneumatic cylinders are certified cylinders, which are reliable and maintain the standards required for the best quality. The ISO 6431 Pneumatic Cylinders comes in different standard sizes and with different mounting options.

## 3. Special Cylinders:

These cylinders are made as per client's requirement. Some example of these cylinders are: Hollow Shaft Cylinders, Stroke Adjustment Cylinders, Tandem Cylinders, Impact Cylinders, Continuously.



# PNEUMATIC VALVES

ACE FLOW manufactures many type of control valves. A partial list of these valves is given below.

- Quick Exhaust Valves
- Rotary Valves
- Direction Control Valves (DCV)
  1. Pilot Operated DCV
  2. Solenoid Operated DCV
  3. Manually Operated DCV
- Rotary Switches
- Key Operated Valves



These Valves are suitable for different types of applications.



Vortex Tubes are devices which generates cold air and hot air by forcing compressed air through a generator. Air enters the vortex tube and is literally split into two parts - cold air at one end, and hot air at the other – all without any moving parts

A vortex tube can be made in several sizes the smallest operating with 2 to 8 SCFM and the medium size 10 to 40 SCFM and the large size 50 to 150 SCFM. Larger sizes have rare applications due to high energy consumption.

#### Applications:

- Cooling components and tools
- Cooling at welding process and reduce the overheat
- Drying of components
- Panel cooling
- CNC system cooling
- Cool welding horns on ultrasonic
- Cool molded plastics
- Cool electronic components



## CABINET PANEL COOLER

Cabinet Panel Cooler or Vortex Cooler also known as Panel Air Conditioner provide a low-cost method of both purging and cooling electrical and electronic control panels by using a stainless-steel vortex tube to create cold air from ordinary compressed air.

#### Advantages:

- Fast installation
- Stabilize enclosure temperature and humidity
- Virtually maintenance free (No Moving Parts)
- Mounts in a standard electrical knockout
- Stops heat damage and nuisance tripping
- Eliminates fans and filters
- Prevents dirt contamination by keeping enclosure at positive pressure
- Units applicable to all environments including high temperature to 200°F



Airmasters tool coolers can improve dry machining operations and assist in spot cooling applications for a variety of industrial machining processes by increasing machining rates and extending tool life. AIR-MTC tool coolers can often replace costly mist coolants and certainly improves the quality and output of all types of dry machining operations from metals to plastics.

The tool cooler is available in various capacities 15, 25, 30 and 40 SCFM in addition, there are two versions, a single exit point and double exit point system. These tool coolers use a strong integrated magnetic base.

### Application:

- Tool sharpening
- Grinding
- Milling
- Drilling
- Band sawing
- Plastic machining
- Routing & chill roll cooling



# AIR FLOW VAC

The Air Vac Compressed Air Conveying System or Air Flow Vac utilizes compressed air for a powerful, efficient venturi action along its length in a compact design for high capacity conveying over large distances. Available in both coated aluminium or high temperature stainless steel. Simply clamp a standard hose size to each end of the Air Flow Vac to create this high energy conveying system. No moving parts for maintenance free operation with capacity and flow controlled with a pressure regulator.

### Advantages:

- Longer life in difficult environments than competitive models
- Simple and easy control of material flow
- Ease of use
- Maintenance free operation
- Instant ON/OFF with no moving parts, no electricity or explosion hazard.



# AIR KNIFE - AIR CURTAIN



Airmasters Energy Saving Air Curtain also known as “Air Knives” provides an efficient laminar sheet of air for wide area cleaning and drying applications. Since Air Knives are a type of air amplifiers, they use a small amount of compressed air to deliver a powerful, high velocity, laminar sheet of air over wide areas such as moving webs, film, sheets, strips, auto bodies and other large assemblies and objects. Airmasters Air Knives are the perfect replacements for drilled or slotted lengths of pipe. In addition, the Air Knives offers up to 70% compressed air savings when compared to the drilled pipes.

## Application:

- Cleaning of Steel Sheet in strip mills
- Scrap removal
- Water removal from cans
- Circuit Board cooling
- Opening bags for filling
- Parts cooling and drying
- Pre-paint drying and blowoff
- Sheet separation and Parts drying



# AIR WIPE - AIR FLOW BLADE

The Air Wipe System also known as Air Flow Blade produces a “laminar” Flow of air along its 360° angle using the “Coanda” effect which “entrains” a large volume of air from the surrounding area along with the small amount of compressed air from the Air Wipe System air-saver wiper-blade to produce an output flow up to 30 times.

Air Wipe - Circular Air Knife blow off, clean, cool and dry cables, pipes, extrusions, hoses, wires and ropes. Air Wipe - Circular Air Knife is easy to mount and maintain and reduces both compressed air consumption and noise levels. Air Wipe - Circular Air Knife is available in aluminum or stainless steel 316L.

## Advantages:

- Easy to install and maintain and allows removal of a continuous piece.
- Reduced compressed air use for energy savings plus lower noise levels
- Maintenance free with output easily controlled, safe to use.





# NOZZLES, FLAT JET & HAND VAC GUN



Airmasters range of air nozzles blow-off is the widest choice in the world!! Ideal where the blow-off requires technical sizing and where high noise level and consumption cause serious problems. Blowing, cleaning and sorting are only some examples of applications where our air nozzles are used. Airmasters compressed air nozzles guarantee noise level reductions of over 50% compared to an open tube or a home manufactured device.



Different Types of Nozzles:

1. Cone Nozzle
2. Flat Jet Nozzles
3. Brass Nozzle with Copper Tube



The Vacuum Gun “AIRMASERS Hand Vac” is the low cost solution to a variety of industrial housekeeping applications. It is a blow gun, a vacuum gun, a collection system and a transfer system in one simple package.

## AIR AMPLIFIERS & AIR JETS

Air Amplification is process which uses surrounding air and a little of pressured / compressed air to create air flow or air blow off, which is known as Coanda effect. Air amplification process minimizes both pressure loss and noise level.

The blow off air from air amplifiers can cut through any boundry layer of heat and cool any object that is hot quite quickly depending on the material to be cooled. The main Product for the process of air amplification is ‘Air Amplifiers’. There are two types of Air Amplifiers,

- Fixed Air Amplifiers
- Adjustable Air Amplifiers

Applications:

1. Cooling
2. Conveying
3. Extractor

**Air Jets are a type of Air Amplifiers. Air Jets are larger than nozzles and used when a wider area needs to be hit with the amplified air. Air Jets are significantly more efficient than nozzles although often use as much compressed air.**



NAVCO is a manufacturer of vibratory flow aid systems and equipment designed to assist in the handling, processing and packaging of bulk material. The NAVCO engineering team can develop customized solutions for specific applications including problem analysis, solution integration, and installation recommendations.

**“NAVCO use applied vibration technology as a means to improve customers’ bulk material handling processes. NAVCO have been solving difficult flow problems for satisfied customers since 1955.”**

NAVCO Bin Hopper Vibrators (BH) are available in 10 sizes to operate effectively in applications ranging from light to heavy duty. The large BH units are ideal for facilitating flow of coal, ore, steel and other bulk materials commonly stored in very large bunkers. The smaller BH units are the optimal flow aid for bulk materials in a large variety of industries, including chemical, food, grain, and pharmaceutical. NAVCO Pneumatic Piston Vibrator configurations are described below.

**The Impacting model (IGO)** develops a high amplitude repetitive impulse when the piston strikes the base of the bore sharply on each cycle. The piston is air cushioned at the head plate on the upward stroke. Energy is transmitted through the bin wall and into the material with each impact. Repetitive impacts allow the vibrator to overcome bulk material strength, affect a large area of influence, and reduce the wall friction. Impacting vibrators are ideal for bulk material that is cohesive or has poor flow characteristics. They are also effective for cleaning out adhering material from empty bins and process vessels.

**The Silent model (SGO)** generates a sinusoidal output by creating an air cushion at each end of the piston stroke. NAVCO Silent Pneumatic Piston Vibrators are effective where non cohesive or free flowing material requires only a small amount of energy to produce flow or linear motion is needed.

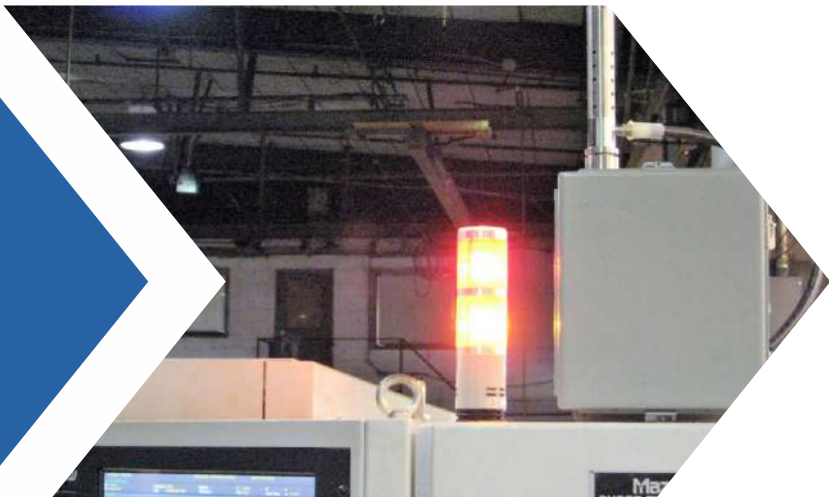
**The Timed Impact model (IGT)** delivers a single, high amplitude impulse each time it is energized. They are operated by a control device that sends intermittent signals to the unit. The impulse of this unit is ideal for evacuating hoppers and process vessels. Specific advantages of the timed impact unit are low noise level, controlled impact, and low air consumption.

NAVCO Pneumatic Piston Vibrators have different types of mounting options like T-Slot Mount – For Flat walled hoppers, Channel Mount – For curved Hoppers, Pipe Mount for Chutes and Pipes, U Mount for Light Duty, Slip Mount for portable applications.





PNEUMATIC PRESS



CABINET PANEL COOLER



MACHINE TOOL COOLER



AIR KNIFE

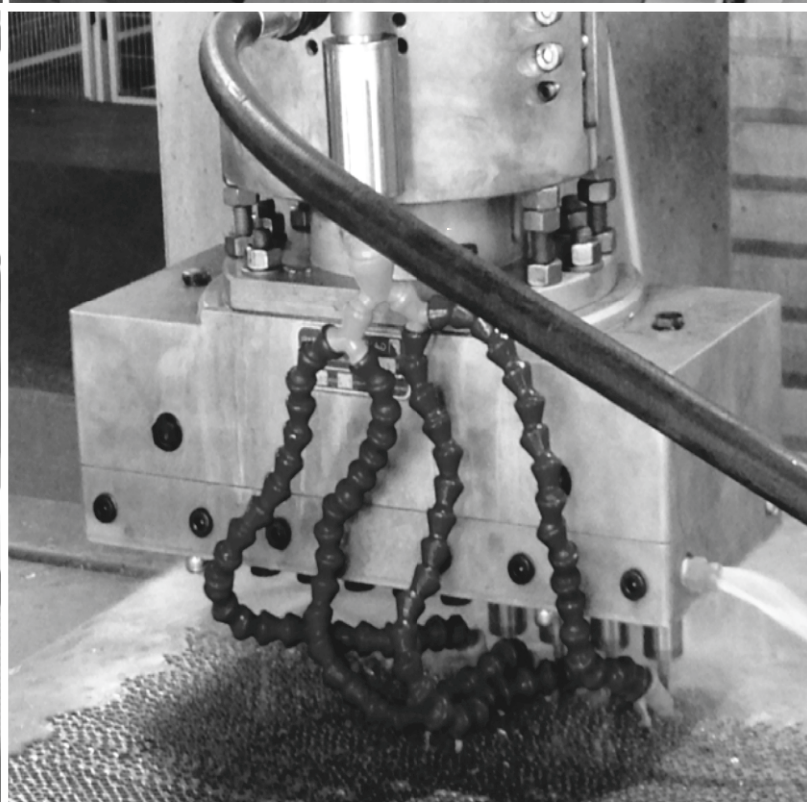
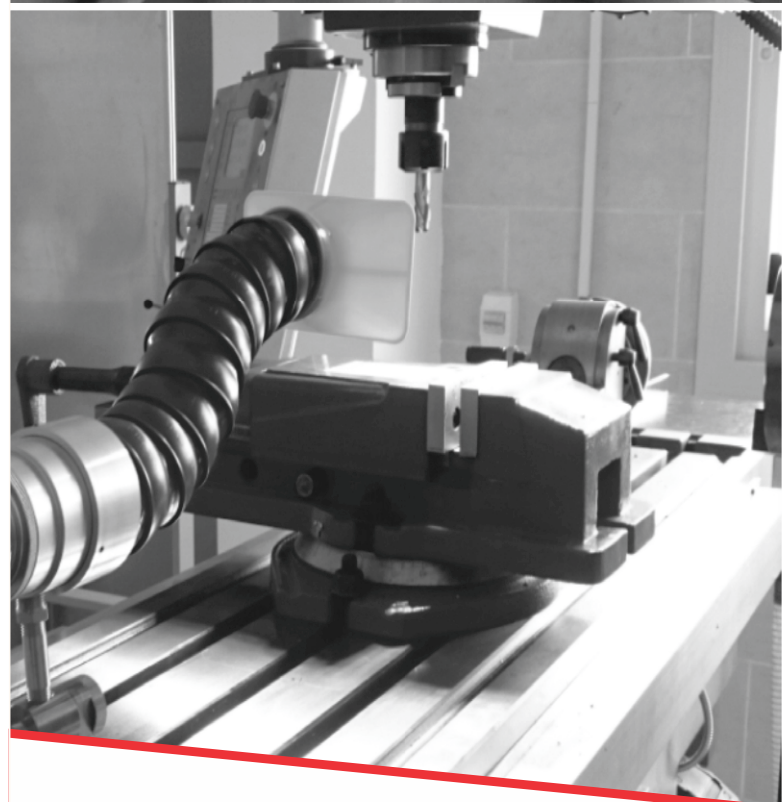
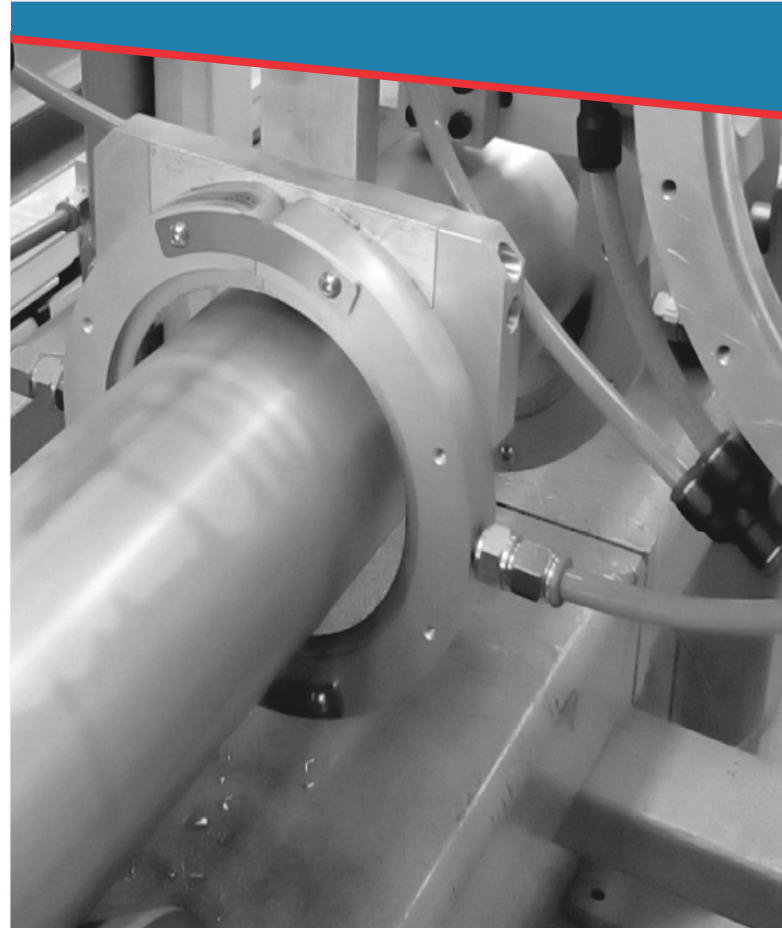


AIR WIPES







AIR KNIFE





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