An ISO 9001 : 2008
Certified Company

SUBURBAN INDUSTRIAL WORKS PVT. LTD.

Sarala

Sital

SWENT

SWAY

Welcome

Suburban Industrial Works (SIW) was incepted in the year 1954 for manufacture of Centrifugal and Axial Flow Fans with world renowned established design of Buffalo Forge and SIROCCO. Since 1957 SIW started marketing of products and increase their market share and customer base through widening its product range and capacity in terms of man power and product domain.

Since May 1981 Suburban Industrial Works Pvt. Ltd. came in to being with the up gradation of complete infrastructural setup with design, man power, plant and machinery. Personnel with experience of decades in respective field along with technically and qualified support staffs soon changed the complexion of the organization. Mingled with the product quality and a strong marketing network within a short span of time the company emerged as a force to reckon with HVAC, Processing and other core sector industries.

Quality Management

SIWL has adopted very strict quality measures to ensure the uniform acceptable quality keeping in view the requirement of products and the application are met all times. Right from inputs to finished products the raw materials are tested from reputed and Govt. Approved test house before processing the finish products. During manufacture all products are subject to DP, Radiographic, Ultrasonic, X-Ray Tests as and when required. All Rotor portion are subject to Dynamic Balancing before assembly as per ISO: 1940. Any further tuning required is carried out by our additional facility of Portable Dynamic Balancing Machine. To ensure meeting guaranteed performances of products we have Testing Laboratory/ Test Beds for testing of fans as per AMCA, BS and IS Standards supported with varied range of measuring instruments with updated calibration

Company Philosophy

With our established product credibility throughout the country our mission is to keep pace with the continuous and upgradation of technology as per demands of different segment of industry and excel with the product quality simultaneously. In support of our mission we are already an ISO 9001:2008 Certified organisation and our products have been conferred with the certification of the world body of our trade Air Movement and Control Association (AMCA), Illinois, USA for specific range of our product.

CENTRIFUGAL FANS
HVAC & General Ventilation

TYPE – SI, DI

Wheel Diameter	305 mm – 2762 mm.
Performance	Maximum Airflow- 870000 CMH Maximum Static Pressure - 355 MM WG
Design Feature	Double width single width non overloading characteristic backward curve impeller. Inlet vane are attached with inlet cone for pre-rotate of inlet air.
Application	Extensively used in HVAC System and general ventilation handling of clean or light concentration of fine particles

TYPE: AF, SISW & DIDW

Wheel Diameter	311mm- 2260mm
Performance	Maximum Airflow - 850000 CMH Maximum Static Pressure- 355 MM WG
Design Feature Single	Energy efficient hollow aerofoil blade, backward curved, non-overloading characteristic, Width (SW), Double Width (DW).
Application	Extensively used in HVAC System handling clean air or with gases containing small amounts of erosive particles

TYPE: BI, SISW & DIDW

Wheel Diameter	311mm- 2260mm
Performance	Maximum Airflow - 585000 CMH Maximum Static Pressure - 355 MM WG
Design Feature	Backward Inclined flat blade non-overloading characteristic, Single Width (SW), Double Width (DW).
Application	Extensively used in HVAC System and general ventilation of industries. It is suitable for handling gas containing small and medium sized contaminant or humid air and also suitable for elevated temperature

Type: PBI & PAF, SISW & DIDW

Wheel Diameter	311 mm- 1245 mm
Performance DW Fan	Maximum Airflow -117230 CMH for SW Fan and 177324 CMH for Maximum Static Pressure - 225 for SW Fan and 355 for DW Fan
Design Feature	The casing of the fan is a square housing. Standard casing can be used in desired orientation. Backward Curved or Aerofoil Section blades are available for both SISW and DIDW.
Application	Extensively used in HVAC System and general ventilation of industries. It is suitable for handling gas containing small and medium sized contaminant or humid air and also suitable for elevated temperature.

TYPE: TCL, TUBULAR CENTRIFUGAL FAN

Wheel Diameter	311mm- 1130mm
Performance	Maximum Airflow- 94200 CMH Maximum Static Pressure- 225 MM WG
Design Feature	Backward Aerofoil Blade, non-overloading characteristic (SW). The advantage of this fan is space saving flow section and delivery is in the same axis. It is quite in operation.
Application	Extensively used in HVAC System. Fume/Smoke Removal, Boosting of Air, etc.

TYPE: SQL, SQUARE INLINE FLOW FAN

Wheel Diameter	311mm -927mm
Performance	Maximum Airflow 47600 CMH Maximum Static Pressure 114 MM WG
Design Feature	Backward Inline limit load non-overloading characteristics, quite in operation, casing of the fan is cabinet type.
Application	Extensively used in HVAC system where fan inlet and outlet lie on the same axis.

Type – DIF, DUCT INLINE FAN

Model:	DIF-100, DIF-125, DIF-150, DIF-200A, DIF-200B, DIF-250A, DIF-250B, DIF-315A, DIF-315B
Performance	Maximum Airflow -1100 CMH Maximum Static Pressure- 80 MM WG
Design Feature	Forward curved G.I. Sheet blades and casing powder coating finished. 50 and 60 Hz. variations, impeller fitted with external rotor motor
Application	Extensively used in HVAC Application such as hospitals, theatre halls, multiplexes, residents, school building, etc.

INDUSTRIAL FANS

Type – AH, BACKWARD IN CLINED BLADES, SISW

Wheel Diameter	324mm- 2210mm
Performance	Maximum Airflow 144000 CMH Maximum Static Pressure 500 MM WG
Design Feature	SISW Type Backward curved impeller, higher efficiency fans.
Application	Handling of gas containing medium size containment. Used as a Force Draft (FD) and Induce Draft (ID) in the field of Industry. Also used in high temperature application.

Type – MH, CENTRIFUGAL RADIAL BLADED FAN, SISW

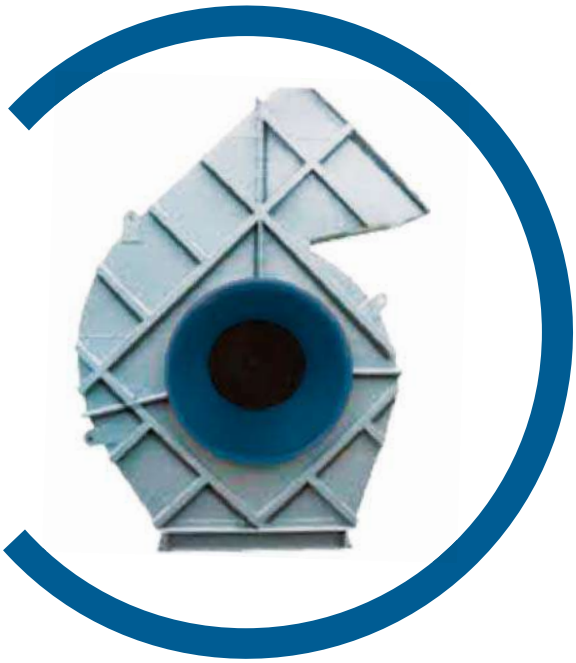
Wheel Diameter	311mm- 2134mm
Performance	Maximum Airflow 144000 CMH Maximum Static Pressure 500 CMH
Design Feature	SISW type radial impeller non-overloading characteristics
Application	Handling of fumes, dust particles contained in air. Extensively used in scrubber, cyclone, bag filter as a FD & ID Fan. Also used in high temperature application.

Type – LS CENTRIFUGAL RADIAL BLADED FAN WITH NO FRONT FLANGE SISW

Wheel Diameter	311mm- 2134mm
Performance	Maximum Airflow 144000 CMH Maximum Static Pressure 500 MM WG
Design Feature	Radial Bladed impeller without front flange, non-overloading characteristics.
Application	It is extensively used in jute, fibre industries where chopping fibre appears in the air.

Type – HIB – 20 & HIB – 24 HI – EFFICIENCY INDUSTRIA BACKWARD CURVED FANS.

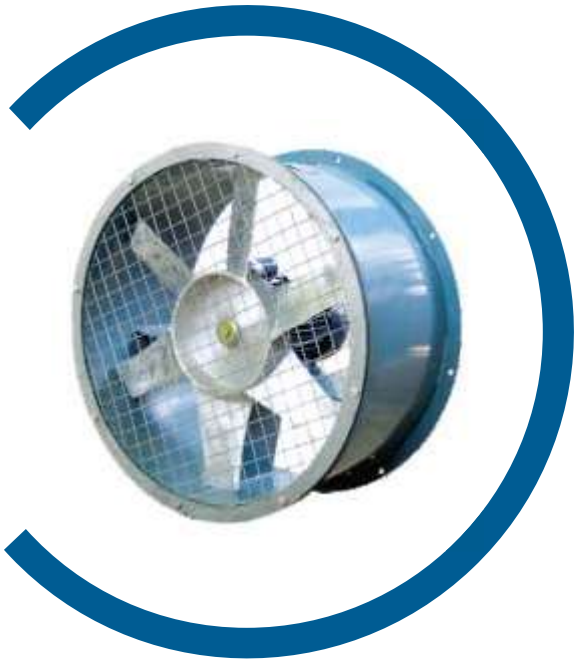
Wheel Diameter	520mm- 2305mm
Performance	Maximum Airflow 300000 CMH Maximum Static Pressure 914 MM WG
Design Feature	High efficiency backward curved impeller, non-overloading characteristics.
Application	This is extensively used in industrial application as a FD or ID Fan used with bag filter, scrubber, cyclone where dust particles exist in the air. It can operate in high temperature application



Type – SIAC CENTRIFUGAL BACKWARD AEROFOIL NARROW WIDTH HIGH PRESSURE FAN, SISW

Wheel Diameter	600mm- 2500mm
Performance	Maximum Airflow 200000 CMH Maximum Static Pressure: 1200 MM WG
Design Feature	High efficiency backward curved aerofoil section blade, non-overloading characteristic
Application	These fans are applied best in industries where high volume and high pressure are required. This is also suitable for elevated temperatures

AXIAL FLOW FANS
HVAC & Industrial Application



TYPE: TL & TS – TUBE AXIAL FLOW FAN WITH LONG CASING & SHORT CASING WITH TWO FLANGES.

Wheel Diameter	300mm – 2000 mm.
Performance	1250 – 280000 CMH upto 80 MM WG SP.
Mounting	Duct, Floor & Wall upto 1200 mm dia.
Application	Ideal for installation in Hospitals, Schools, Research Labs, Exhaust Air & Supply Air System. It is most often used in HVAC duct system.

TYPE: WM – WALL MOUNTED AXIAL FLOW FAN WITH INLET CONE AS AN INTEGRAL PART OF THE FAN.

Wheel Diameter	300 mm – 2000 mm.
Performance	280000 CMH upto 80 MM WG SP
Mounting	Wall mounting & panel mounting.
Application	Same as that of Tube Axial Flow Fan.

TYPE: RE –ROOF EXTRACTOR/ROOF VENTILATOR

Wheel Diameter	300 mm – 1600 mm.
Performance	1250 – 162000 CMH upto 30MM WG SP
Mounting	Flat or sloping roofs.
Application	Roof ventilators are ideal for clean air, low velocity application in both supply and exhaust system.

TYPE: BF – BIFURCATED AXIAL FLOW FAN.

Wheel Diameter	500 mm – 1000 mm.
Performance	1250 – 73000 CMH upto 40 MM WG SP
Mounting	Inline Duct and or Wall mounting.
Application	These fans are suitable for handling hot, explosive, corrosive and inflammable gases. Motor is enclosed to prevent direct contact with air.

TYPE: MC – AXIAL FLOW MANCOOLER TUBULAR TYPE.

Wheel Diameter	450 mm- 1200 mm.
Performance	1500 – 90000 CMH at FAD.
Mounting	Pedestal for standing on floor or bracket mounting
Application	Man cooling quiet in operation and reliable to cool selective area or work area.

TYPE: APG – VANE AXIAL FLOW FAN.

Wheel Diameter	254 mm – 3000 mm.
Performance	1500 – 850000 CMH upto 150 MM WG SP in single & 300 MM WG in double stage.
Mounting	Floor mounting.
Application	These fans are generally provided for handling large volume of air at comparatively higher pressure. These are provided with outlet guide vanes and may or may not be provided with inlet guide vanes. These fans are used for surface mine ventilation and industrial process cooling application.

TYPE: AMV – AUXILIARY MINE VENTILATION FAN.

Wheel Diameter	510 mm.
Performance	18000 – 22000 CMH at 250-60 MM WG.
Mounting	Floor, wall bracket mounting.
Application	Auxiliary mine ventilation fan are double stage axial flow fan fitted with DGMS flame proof motor. Extensively used in underground mining where inflammable and hazardous gas present in air.

TYPE: TSM, SMOKE SPILL FANS

Wheel Diameter	300mm- 1000mm
Performance	Maximum Airflow 65000 CMH Maximum Static Pressure 56 MM WG
Mounting	Floor and Ceiling Suspended
Application	Used in case of fire at temperature of 250°C – 300°C for 2hrs. Specially designed thermal rated are used for these fans. Extensively used in Hospitals, Schools, Multiplexes, Hotels, etc.

ACCESSORIES

OUTLET DAMPER

(Opposed bladed or parallel bladed types) is best suited for control over board range of air volume and are highly efficient in performance. These dampers can be operated manually or automatic

VARIABLE INLET VANE DAMPER

Designed for accurate control of air volume. The damper will spin the air in the direction of wheel rotation resulting in a maximum saving in power at the reduced ratings desired.

COMMON BASE FRAME

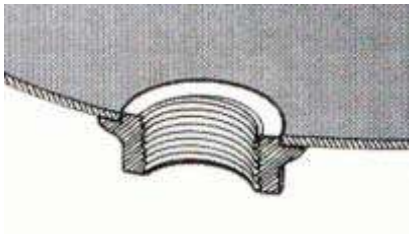
It is structural steel bases with channels which provides common support to fan, motor and drive including guards.

ACCESS DOOR

Access door is provided on the fan casing for inspection and maintenance. Asbestos rope or rubber gasket is used in between fan casing and access door to prevent air leakage. Bolted and quick clamp doors are available.

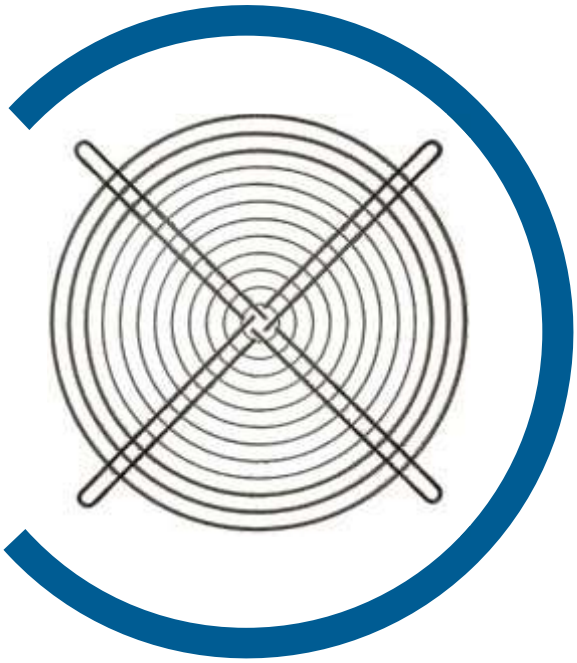
HEAT SLINGER / SHAFT COOLER AND SHAFT SEAL

Aluminium shaft cooler is used dissipating heat and protecting bearing from high temperature. Shaft cooler is used generally in fans which handle very high temperature flue gas.



HOUSING DRAIN

A socket welded at the lowest point of housing scroll for drainage of water in order to protect the fan from rusting.



INLET AND OUTLET SAFETY SCREENS

Inlet and Outlet Guard are used for protection of the inlet and the outlet from foreign particles entering the fan. It safe guards the inside of the fan from any outside material to enter through the vents.

VIBRATION ISOLATOR

Rubber – in – shear or spring type vibration isolators are available for all sizes and arrangement.

BELT GUARD

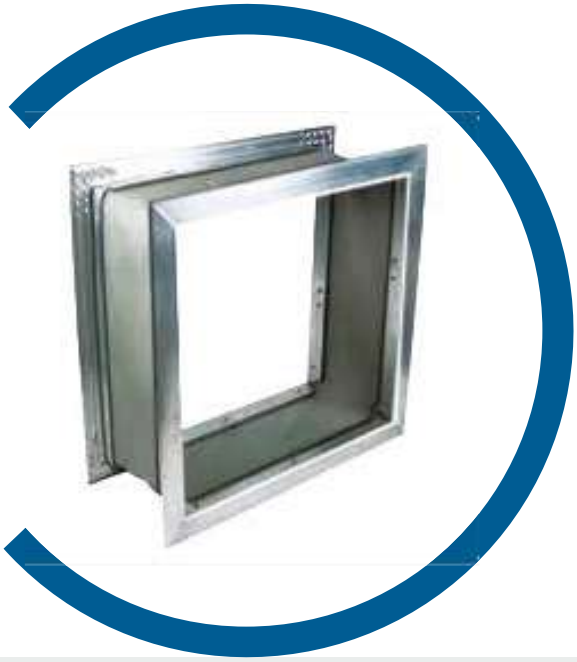
A belt guard protects personnel from the moving drive parts. Both standard and totally enclosed type guards are available.

V-BELT DRIVE SET

Drive Set consists of dynamically balanced pulleys and V-Belt. Pulley is made from cast iron or cast sheet material.

COUPLING

Metal Grid type coupling are used where transmission of high power is required. Tyre type couplings are best for low power transmission; they are also flexible in case of out of alignment



FLEXIBLE CONNECTION

Plastic impregnated canvas material is generally used for flexible canvas connection where two metal flanges are fitted at both ends. Flexible material such fire proof cloth, rubberised tarpaulin, neoprene rubber for elevated temperature.

MOTORS

Along with our fans SIWL offers a wide range of motors for different applications as per customer requirement.

The mostly commonly used motor is the Squirrel Cage Type. This is type is used for all general applications and purposes. Another rare type of motor used with our fans is the Slip Ring Type. These motors are used in those fans from which high torque is required such as main mine ventilation fans.

TEFC SQUIRREL CAGE MOTOR

We Supply Our Equipment with the Following Specifications of Motors

Enclosure:	Totally Enclosed, Squirrel Cage Motor.
Mounting:	Foot Mounted, Flange Mounted.
	Pole: 2, 4, 6, 8, Dual Speed Motor.
Insulation:	Class 'F'/ 'H'
Degree of Protection:	IP-55, IP-54, IP-56
Ambient Temperature:	45°, 50° C
Frequency:	50 Hz and 60 Hz supply
Efficiency Class:	Eff-1 and Eff- 2

Smoke Spill Motor as per BS 7346 Part-2 1940 is used for smoke exhaust fans. These motors can run for at least 2 hrs and withstand upto 250°C-300°C temperature and run for at least 2 hrs in case of fire.
Flame Proof Motor is used in hazardous areas where flammable gas and vapour exists such as underground mines, battery rooms, etc.

SMOKE SPILL MOTOR

Our Regular Brands of Motor Supply are

- Marathon Electric
- ABB
- Bharat Bijlee Ltd. (BBL)
- Hindustan Motor
- Havells
- Laxmi Hydraulic
- Rotomotive


BLUE STAR


VOLTAS


Unique Engineers


SUVIDHA


STERLING AND WILSON


DLF


Reliance
Industries Limited
Growth is Life


JCT LIMITED


Raymond


HNG


सेल SAIL


ACC
ACC Limited


हिएलि
HAL
Propel your dreams


TATA


JINDAL


HZL
HINDUSTAN ZINC LIMITED


L&T


एनटीपीसी
NTPC


MAHAVITARAN
Maharashtra State Electricity Distribution Co.Ltd.


HCL


CESC
LIMITED


कोल इण्डिया लिमिटेड
Coal India Limited
भारत सरकार का उपक्रम
Government of India Undertaking
A Maharatna Company

We are also geared up with Performance Testing facility of Fans as per National and International Standards.

a) BIS- 4894
b) BIS-3588
c) AMCA- 210
d) BS-848 Part-I

In House Dynamic Balancing Facility

In House Performance Testing Facility

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