



UNIQUE PRODUCTS

S Y S T E M S

WE DEVELOP INNOVATIVE & CUSTOM DESIGNED SYSTEMS





UNIQUE
PRODUCTS
SYSTEMS

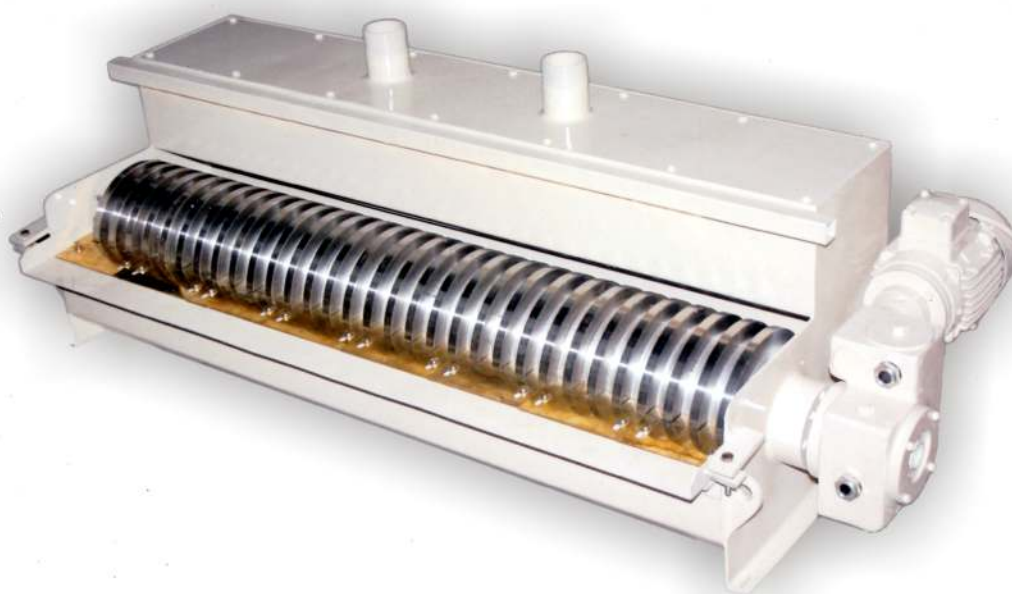


Namdev Miskin
CEO



The Company was established in the year 2003 and is managed by qualified and experienced engineers and professionals having been in the field for more than 3 decades make us understand the need of customer and offer a right solution. We have developed innovative and custom designed solutions and many products are import substitutes saving valuable foreign exchange and offering reliable systems at very economical prices. The Company has ISO 9001 Certification from TUV INDIA

FILTRATION SYSTEMS



MAGNETIC COOLANT FILTER

The Magnetic Filters are designed for effective separation of ferrous contamination from Coolants and Oils. The body is of robust construction with a Powerful Magnetic Drum continuously rotated by a geared motor at slow speed. The particles get attracted by the drum and scraped off. An oil resistant rubber roller helps to squeeze out the dust and wastage of coolant oil is avoided. Special Filters are also available with Rare Earth Magnetic Constructions which are 4-5 times more powerful than conventional Magnetic Filters. They are manufactured in various capacities ranging from 30 LPM to 3000 LPM.

PAPER BAND FILTER



These are most widely used for filtration of Coolants and Oils with contamination of Non-ferrous and Ferrous in nature. The paper in Roll form is spread on a specially designed Conveyor belt with a Trough Shape to retain the coolant and the Filtered Coolant passes thru the paper in a clean tank. The paper roll is automatically indexed by float-switch mechanism and Geared Motor. Needs no manual attention and gives very effective and economical means of filtration. Can also be supplied with Magnetic Filters combined to reduce the loading of paper and drastically reduces the consumption. Suitable for Grinding, Honning, Rolling Mills, Machining, Water Treatment and lot many applications Capacity ranging from 50 LPM to 10,000 LPM.

FILTRATION SYSTEMS



COMPACT BAND FILTER

Unique Compact Band Filters are designed with Hydrostatic Principle. The Compact Band Filters offer higher degree of filtering efficiency as compared to Gravity Type Filters and occupy 60-70 % lesser space which is of great advantage. The semi circular shaped conveyor belt with positive drive ensures proper filtration and discharge of contaminates without slippage. The indexing of paper is fully automatic thru a float switch mechanism and Geared Motor. Clean Coolant tank with supply pumps, preliminary Magnetic filters as add-ons can be supplied. Flow rates ranging from 50 LPM to 2000 LPM.

VACUUM FILTER



The Unique Vacuum Filters are of Robust construction built with latest Technology in Filtration. The media in the Roll form is supported by a conveyor mechanism throughout the bottom. A pump sucks the coolant from the vacuum chamber and the Liquid passes thru the media. All the contaminants are retained over the media. As the media gets choked due to accumulations of contaminants the vacuum switch gives signal and the fresh media is indexed to a prefixed time. The supply to the machine is continuous and not affected as the coolant is drawn from the regenerating tank during indexing. The Complete system is automatic and controlled by a PLC system. The Flow rate range from 300 LPM to 30,000 LPM. Used for centralized coolant systems, which are very economical and highly reliable.

FILTRATION SYSTEMS

HYDRO CYCLONE FILTER

These are simple and economic means of filtration for Coolants and Oils to separate particles of both Ferrous and Non-Ferrous. Since there are no moving parts and requires no consumables. Separation is by Centrifugal force created by a pump and Vortex. The Contaminates get discharged through the Orifice and collected in a bin. The filtrated coolant can be supplied to machine Flow rates vary from 50 LPM to 500LPM with single or multiple units.



BAG FILTER

Unique Bag Filters are designed with simple and maintenance free operations. The vessel is of Carbon Steel or Stainless Steel constructions with Imported Filter Bags which can be offered with various grades and material to suit filtrations of contaminated Liquids, Oils, and Coolant in Machine Tools, Pharmaceuticals, Chemicals and Food Industries. They offer 100% positive filtration and can be used inline or off line and available in flow rates ranging from 20 LPM to 2000 LPM, simplex or duplex variants with Valves, Gauges etc, and filtering accuracy from 5 Microns to 50 Microns, Suitable for Thru Tools and as Secondary filtering applications.

OIL SKIMMER

Unique Oil Skimmers are very ideal solutions for effective separation of Tramp Oil, Scum etc from water based coolants and liquids. The Belt is of endless polymer with a reliable and compact Geared Motor. Separation of Tramp Oil helps improve coolant life and is environmental friendly. Separation capacity of 2 LPM to 20 LPM with different width and immersion depths are available. Disc type and Drum type Skimmers are also available.

OIL SKIMMER



FILTRATION SYSTEMS



CENTRALIZED CHIP & COOLANT SYSTEM

In Modern Machine Shops it is becoming extremely popular and essential to Install Centralized Coolant and Chips Handling Systems which eliminates individual conveyors and coolant tanks, reducing the space and maintenance substantially. The Conveyors are installed under the ground leaving the Floor Area free the movement and keeping the shop free from the Chip and Coolant Spillage. Also the systems prove economical as maintenance and, numbers of pumps etc get reduced. The systems are custom designed to handle different type of Chips, Quantity and Flow Rates. Combination of Scraper, Slat, Rotary Drum, Magnetic Filters or Bag Filters, Chip Centrifuge etc make the systems very effective and reliable



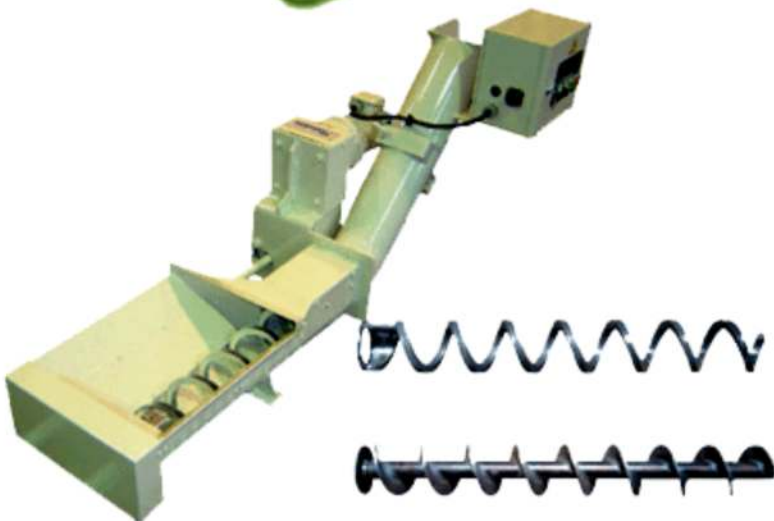
MAGNETIC CONVEYOR

The magnetic Conveyors are of very sleek yet of robust construction. The Conveyor mechanism is totally enclosed by a Stainless Steel sheet and powerful permanent magnets on the moving conveyor belt carry the chips without slippage. The special design offers trouble and maintenance free operations. Used for various applications like Gear Cutting, Hobbling, Broaching, Machining and Shaving etc. Standard and special constructions with High power magnetic options are available. Can also be used for components handling very effectively. Available in Various size and shapes and custom built for specific operations.

CONVEYOR SYSTEMS

SCRAPER CONVEYOR

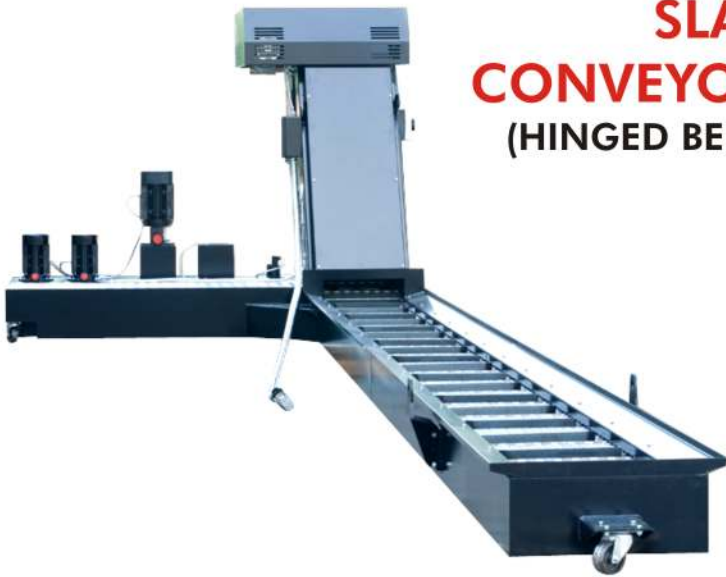
Unique Scraper Conveyors are suitable for handling fine chips of Cast Iron, Aluminum and Steel These Conveyors are of solid construction. The body with wear resistant design gives longer life. The chain is made of High Carbon Steel with Heat Treated material, moving on Sprockets with self aligning bearings for smooth operation. The Scrapers are designed to carry the Chips without slip but allowing draining of Coolants. Can be supplied in various Width, Lengths and Configuration for Dry and Wet operation with belt in Coolant Tanks, Magnetic Deck etc.



SCREW & COIL CONVEYOR

These conveyors are very compact in size and design, can be fitted in small space to carry the chips in HMC & VMC, SPMS etc. Different size of screws or coils can be supplied from 75 mm to 300 mm for handling different type and quantity of chips in short and long length for Individual and Centralized Conveying Systems as well.

SLAT CONVEYOR (HINGED BELT)



The Slat Type Hinged Metal Belt Conveyors are most versatile and can handle almost all types of chips like Curly, Heavy, Short and Pressed Metal scrap as well. The body is robust design, pressed section with chain guide rails. The conveyor chain is made of Carbon Steel with Hardened Rollers for longer life. Available in various Pitches 1.5", 2.5", 4" and 6", Width ranging from 100 mm to 1500 mm. Different configuration Straight, Inclined, "Z" types are available. Extensively used for Turning, Machining, Drilling, SPMs and Press Shops, suitable for Individual and Centralized system.

CONVEYOR SYSTEMS



ROTARY DRUM CONVEYOR

While handling the chips like Aluminum, Cast iron, Brass and Steel, they tend to float with coolant and difficult to filter. The Rotary Drum Filter gives excellent results basically the scraper conveyor is equipped with a Stainless Steel drum continuously driven by the conveyor chain itself. The fine chips gets retained on the periphery and back washed with nozzles with a pump discharge and clean the clogged chips as the drum rotates. The clean liquid flows in the clean tank area, since the expensive filter media are avoided there are no consumables. Filtering accuracy of 100 to 500 Microns is achieved. The effective filtration reduces the frequency of cleaning the Tanks and Machine down time significantly. Combined with Slat type Conveyors and Multiple drums for higher flow rates gives wider choice of application.

POWERED ROLLER CONVEYOR WITH DRUM FILLING SYSTEM



They are very efficient in quick and effortless handling of different type of components without much manual involvement. The Rollers are machined and fitted with sealed Ball bearing and Duplex Sprockets with chain Drive give positive force fore driving. Driven by Geared Motors of fixed or variable Speeds can be supplied to meet different production requirement. The Structure is fabricated in slandered ISMC with adjustable Legs. The Rollers are made of standard ERW pipe in M.S Galvanized, SS-304. The bearing fittings are precisely machine on CNC smooth running. Can be supplied in suitable length, Width ranging from 100mm to 2000mm also available in different shapes Straight, Curved. The optimized system consists of Powered Roller Conveyor of Heavy duty design with variable speed and combined with Auto Drum Filling Station. Similar custom designed solutions for various process like Weighing & Filling, assembling, Painting, Labeling, Packing etc is possible.

CONVEYOR SYSTEMS

HOPPERISED FEEDER CONVEYOR WITH COUNTER

While handling components in large quantity manual counting becomes too cumbersome and highly labour oriented. 'Unique Products' has developed an effective system, Which has a Hopperised Feeder Conveyor that carries components stored in a Hopper and progressively feeds to a Belt Conveyor wherein every components are accurately counted. A control panel with Electronic Digital Counter is set to the desired quantity of components once the quantity is reached the Machine stops automatically and gives Indications and an Alarm. The system comes with variable speeds to handle different volumes suitable for Bearings, Automotive Components and many other parts. Sizes and Configurations can be custom designed to suit specific requirements.



IDLER ROLLER CONVEYOR WITH TURN TABLE

While handling of components, Carton Boxes or Assemblies, the most convenient and efficient way of handling is possible by using powered or Gravity Roller Conveyors. The movement can be made more flexible and easy by using Turn Tables, which can be provided with Powered or Gravity Rollers, Flexi-balls etc. The components can be moved from one conveyor to another at any angle or direction, can be diverted to desired work stations with great ease and flexibility. Custom designed for simple or complex application is possible.



AIR BLAST COOLER



Unique Air Blast Coolers are most efficient and Economical solution while maintaining the temperature of Oils used in various operations like Lubrication, Hydraulic Power Packs, Heat Treatment Shops etc. The Tubes are made of Copper with specially designed louvered Air Fins to evenly circulate the Air and controlled Air circulation with remarkable performance in smallest possible size of cooler.

The Air blast cooler with effective control of Temperature in oils avoids drop of oil viscosity and prevents leakages of seals and valves. The fact that no water is required for cooling and atmospheric Air is used with minimum power consumption make the Air blast coolers installation in remote areas with ease. Available in wide range from 200 Kcal/ Hr to 30,000 Kcal/Hr

COOLING SYSTEMS



REFRIGERATED OIL/COOLANT CHILLER

Refrigerated Oil/Coolant Cooler : The High rise in Temperature of Hydraulic Oil, Lubricants and Coolant Oils and other liquids drastically reduces the efficiency and many times leads to inaccuracies or failure of sensitive parts like Spindles, Bearings, Valves etc . The 'UNIQUE' Refrigerated Coolers with specially designed and Manufactured with Highly efficient Evaporators and Condensers. A Hermetically sealed compressor of Reputed Brand gives trouble free performance. Standard features are Overload Protection, Indicating Lamps, HP/LP switches, Digital temperature controls etc. Cooling Capacities from 300 to 30,000 kcal /Hr are available in Stand Alone and Immersion Type.

CHIP CRUSHER/SHREDDER

Unique Chip Crushers are Compact in design and efficient in working. The crushers can be integrated with Conveyor system or used as an independent unit. The Rotary Cutters single or multiple type are made of special alloy steel Heat Treated for longer life and cutting of scrap very effectively. The bearings are suitable for absorbing shock loads and the Geared Motor is of extra Heavyduty design to facilitate cutting of heavy spirals and tough chips. The Shredder cuts the chips in smaller size which can be used for further processing thru Centrifuge or Briquetting purpose. The shredded chips also help in drastically reducing the Storage Space, Less hazardous for handling and aid environment protection, meeting safety norms.



CHIP PROCESSING SYSTEMS

ADVANTAGES OF CHIP CENTRIFUGE:

- Adjustable Speed to Meet Individual Requirement.
- Minimum Number of Parts, Resulting In Smooth Running and No Maintenance.
- Heat Treated, One-Piece Long Life Bowl.
- Superb De-Oiling.
- Small and Compact.
- Trouble Free Performance.
- Maximum Oil Reclaiming From Chips.
- Low Price.



CHIP CENTRIFUGE WITH MAGNETIC FEEDER CONVEYOR AND CHIP CRUSHER

Cut costs, keep clean!! Savings in operating costs and total economy have become increasingly imminent in today's competitive industrial activity. Equally important have become the environment laws. 25% of the cooling/cutting agents used is lost around the chips. Which has to be retrieved from the chips to reduce the process cost to keep the work place clean and accident free. Unique Products offers compact centrifuge units as a dedicated centrifuge for each machine or as common centrifuge for a group machines in capacities of 150 kg/hr, 500 kg/hr and 1000 kg/hr

FILTER ELEMENTS & CONSUMABLES

CANDLE FILTERS



FILTER BAGS



FILTER PAPER ROLLS



CARTRIDGE FILTER ELEMENTS



Filter Elements: We Manufacture and Stock variety of Filter Elements extensively used with Filter Systems, Filter Bags of all standard Sizes 412, 815, 830 in various Filtering Grades ranging from 5 Microns to 50 Microns. Available in various materials, Polypropylene, Nylon, Polyester, and Beta Bag etc. Filter Paper Rolls of sizes upto 2 Meters length. In Microns Sizes 10, 20, 50 can be supplied in various grades used in Grinding, Rolling, Pharma, and Centralized Filter Systems, Effluent Treatment plants etc. Similarly Cartridge Elements and Candles in various sizes for Micro Filtration of Water Based Coolant, Honing or Lubricants Oils are available in standard and Custom designed from 1 Micron to 100 Microns.

CONVEYOR SPARES



CHIP BIN/CHIP TROLLEY

CHIP TROLLEY : TILTING AND FIXED TYPE. These are essential equipments for Storage and Handling of Chips produced in Machining and standard part of Chip Conveyors. The Chip Trolley are Fabricated in extra Thick Sheet Metal, with reinforcement and Mounted on Rigid Frame, designed for stability. 2 No's of Fixed and 2 No's Swivel Wheels are provided for easy Monitoring and movement of Trolley in Shop Floor. Extra Heavy Duty construction are also available. The Trolleys are provided with Perforated bottom for draining of chips with a Valve and Safety Lock for Foot Operated Lever are Standard features. Available in Standard Sizes and Custom Made.



GEARED MOTOR

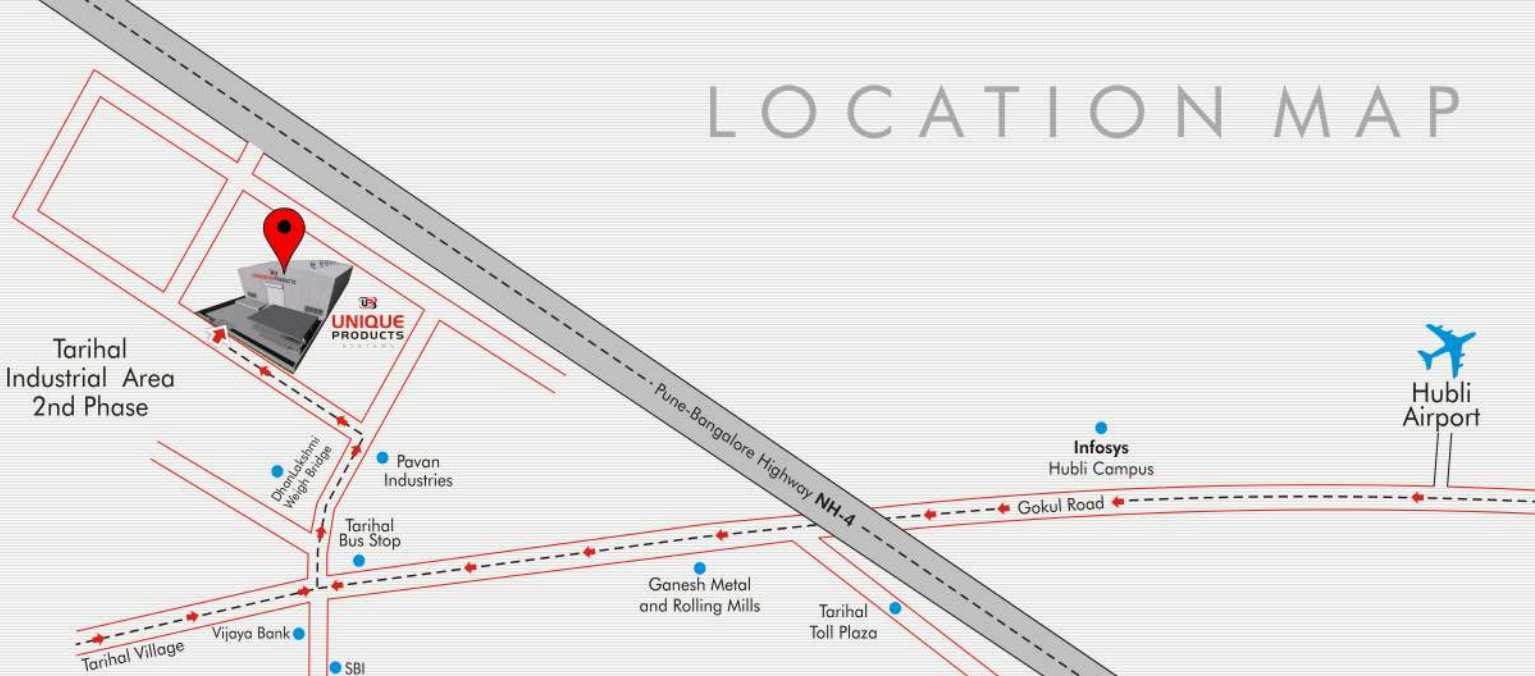
Are of Double Worm reduction Hollow Shaft Mounting and Suitable for Chip Conveyors, Filtration Systems, Oil Skimmers, Screw Conveyors etc, and easily match with most of the Reputed Indian Brands and Imported Equipments. The End RPM available in 2.5, 5, 7, 10 and 15 RPM. By Input Power of Motor 0.18, 0.37 and 0.75 KW can be supplied. Spare Worm and Worm Wheel are also available.

HINGED METAL BELT



Conveyor Spares: We can provide all the spares required for various types of Conveyors. Hinged Metal Belts or Slats and Conveyor Chain of Pitch 1.5", 2.5", 4", and 6" and as per Customer requirements Scraper Conveyor Chain and Assembly, Shafts, Sprockets, Safety Clutches, Screws and Coils as per Drawing can also be supplied contact for any make and specifications.

LOCATION MAP



FILTRATION SYSTEMS

- Magnetic Coolant Filter
- Paper Band Filter
- Compact Band Filter
- Vacuum Filter
- Hydro Cyclone Filter
- Bag Filter
- Oil Skimmer
- Centralized Chip & Coolant System

CONVEYOR SYSTEMS

- Magnetic Conveyor
- Scraper Conveyor
- Screw & Coil Conveyor
- Slat Conveyor (Hinged Belt)
- Rotary Drum Conveyor
- Belt Conveyor
- Powered Roller Conveyor with Drum Filling System
- Hopperised Feeder Conveyor with Counter
- Idler Roller Conveyor with Turn Table

COOLING SYSTEMS

- Air Blast Cooler
- Refrigerated Oil/Coolant Chiller

CHIP PROCESSING SYSTEMS

- Chip Crusher / Shredder
- Chip Centrifuge With Feeder Conveyor

FILTER ELEMENTS & CONSUMABLES

- Candle Filters
- Filter Paper Rolls
- Filter Bags
- Cartridge Filter Elements

CONVEYOR SPARES

- Chip Bin / Chip Trolley
- Geared Motor
- Hinged Metal Belt

**UNIQUE
PRODUCTS**
SYSTEMS



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