SR FILTERS

"Our Ultimate Aim Is To Satisfy Our Clients With Our Services"

Manufacturer of

- Industrial Filters
- Industrial Strainers
- Sifter Sieves & Screens
- Filter Housings

FOR PHARMACEUTICAL, CHEMICAL, POLYMER AND FOOD & BEVERAGES INDUSTRIES.

About Us

Mr. Muhammed Riyaz Siddiqui founded the company in 1997 at the age of 25 in a small workshop in Fathenagar, with the primary goal of manufacturing sifter sieves, screens, and strainers for the pharmaceutical, chemical, and food and beverage industries, as well as other fabrication work. In late 2006, **3R FILTERS** started gaining popularity for its products and soon became a household name in the regional industrial area.

While our founder was still working dedicatedly at the age of 45, he consolidated with his sons. Mr. *Mohammed Iliyaz Siddiqui & Muhammed Imtiyaz Siddiqui*, and started working with their father while simultaneously completing their graduation. Their joining at such a young age proved very successful for the company, resulting in its taking an enormous leap forward in the manufacturing sector.

With over 25 years of industry experience, **3R FILTERS** has earned a reputation for manufacturing a complete line of pharmaceutical filters, sieves, screens, industrial filters, basket strainers, filter housings, and filtration systems for the global industrial market.

We have developed a sophisticated and well-equipped infrastructure facility at our premises to manufacture this offered range of products as per the industry's defined norms. Our facility is equipped with all the modern machines. We have also appointed a team of well-qualified and talented professionals. **3R FILTERS** has been a synonym for outstanding technical performance, innovation, quality, and reliability.

Without an efficient filter, the end product would be of poor quality and the safety element wouldn't be there. ”

Mr. Muhammed Riyaz Siddiqui
Founder

Industries We Work With

Pharmaceutical

Chemical Industry

Food & Beverage Industry

Oil Refineries

Pulp & Paper Industry

Paints & Coatings

Cement Industry

Oil & Gas Industry

Polymer Industry

Steel Industry

Textile Mills

Cosmetics Processing

Dairy Industry

Fertilizer Industry

Water Treatment

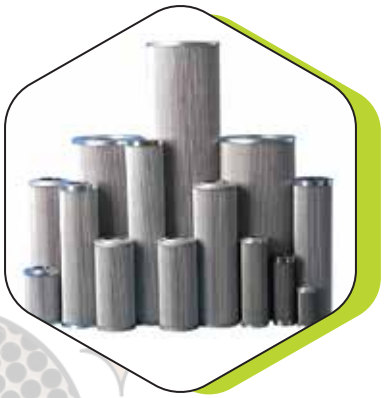
Sugar Industry

INDUSTRIAL FILTERS

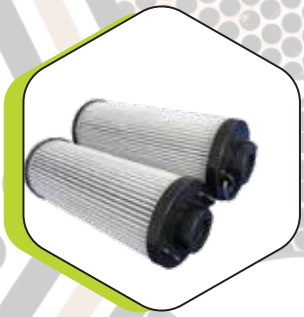
Hydraulic & Lube oil filters :

Filters that are designed to purify petroleum-based liquids such as oils. An oil filter is a filter designed to remove contaminants from engine oil, transmission oil, lubricating oil, or hydraulic oil. The contaminants are too small in size to be seen by the naked eye. However, you can increase the performance of your fluid through filtration by using a filter element. Basically, an oil filter element removes all particles and contaminants from circulating within the engine and hydraulic machines. We manufacture filter elements equivalent to **Hydac, Pall, Rexroth, Donalson, MP Filtri, EPE, Parker,Argo hytos, and many more...**

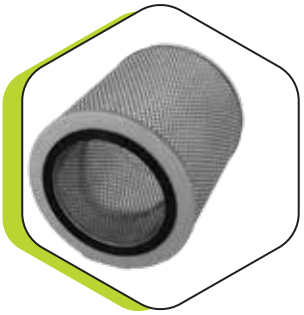
Pressure Line Filter Elements.

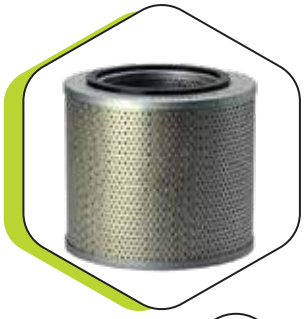


Return Line Filter Elements.

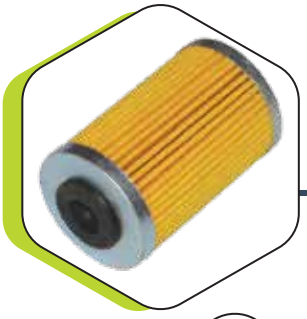


Suction Filter Elements.

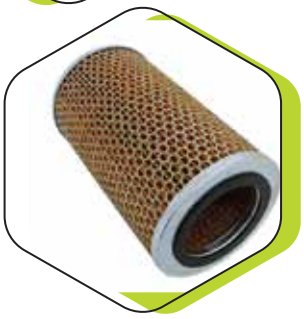




Fuel Filter Elements



Lube Oil Filters.



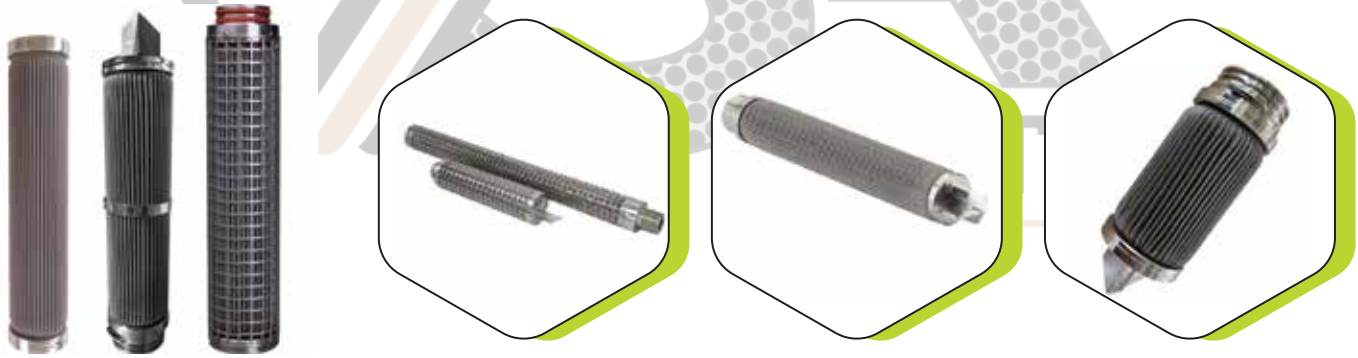
OIL Filter Disc

Each SPL disc filter is made of 4 ply of stainless steel wire mesh or copper wire mesh of different gauge wires with a 1 ply perforated sheet. The two outer filtering mesh are fine wire mesh, and the two inner coarse mesh and one perforated sheet are only for support. The 4 ply wire mesh is held together by a stainless steel or aluminium frame.

They are commonly used as double drum filters, which are composed of multiple filter discs. These types of filters are easy to remove solid impurities from oil and are widely used in high viscosity melt filtering devices. The filter discs can be used repeatedly after cleaning.

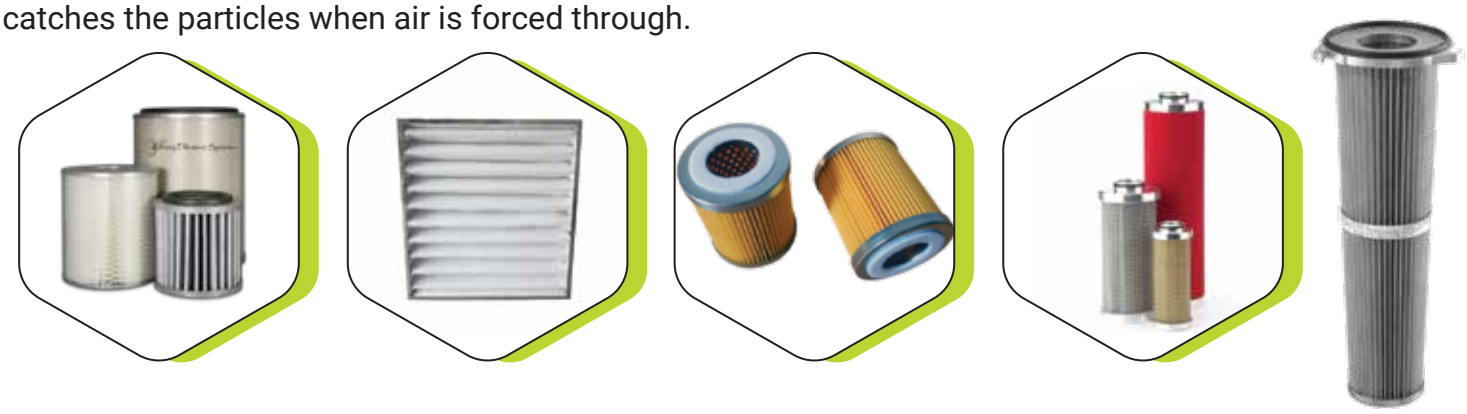
S.S Pleated Filter cartridge :

Stainless steel cartridges are designed to overcome temperature and chemical compatibility. limitations of fabric or synthetic fibre media. This will offer very high temperature resistance and can withstand high differential pressure. These elements can be back washed and reused.



Air filter elements :

Air filters are an important part of most industrial processes, as they remove dust, dirt, and other particles from the air. Most air filters consist of a cellulose media, wiremesh, or glass fibre that catches the particles when air is forced through.



SIEVES & SCREENS

For Pharmaceutical, Chemical & Food Industries.

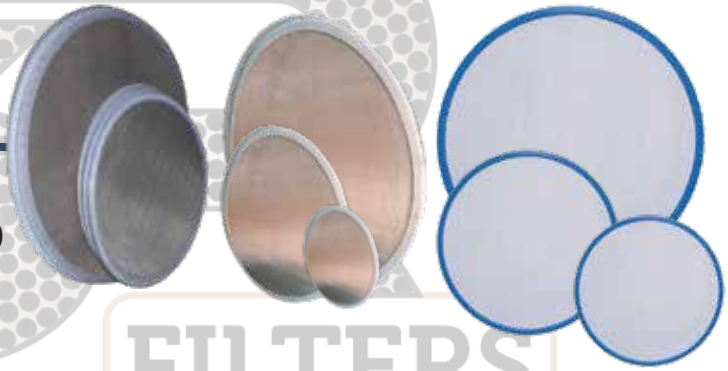
Sieves for Siftings :

Vibro Sifter is used for screening, sieving, grading for solid-liquid separation, process to separate the desired elements and the undesired elements from the combination of solid to solid (where two solids are generally having different properties) and solid to liquid material.
3R FILTERS is leading manufacturer & supplier of **Vibro-sifter sieve, lead free silicon sifter sieve, Z-type sifter sieve, Riveted sifter sieve, Test sieve's** & many more.

Material Of Construction: Stainless 316-L Quality.
The mesh sizes varies from #4 mesh to #500 mesh
These are available with complete set of certificates .
Sieves suitable for **Sweco , Russell, Pennwalt** Sifter and all Indian Machine Manufacturers.

LEAD FREE SIFTER SIEVES

Sizes : 12" | 20" | 24" | 30" | 36" | 48"
Most common size: 20"(550mm) | 30"(750mm)
The silicon is food grade quality, translucent in Appearance, Non toxic



S.S RIVETED SIFTER SIEVES

Mesh is fitted in between 2 rings with the help of rivets and spot welding. These sieve can be Re-mesh.

Z – TYPE SIFTER SIEVE

- Available in various sizes from 550mm-1200mm
- Available both in silicon moulded and ss frame

we also re-mesh many other different old sieve frames with food grade adhesive, spot welded, riveted and Nut bolts.

FBD , FBE SIEVES

Sizes : 125 to 800 ltr & 30kg to 200kgs
Mesh : #24x110 Dutch weave

APPLICATION OF SIFTER SIEVES

Food Industry

Chemical Industry

Ceramic Industry

Metallurgy

TEST SIEVE

It generally consists of a stainless steel wire mesh screen held in a round metal frame. It is designed to provide desirable precision when filtering out unwanted particles from final products. Test sieves come in a variety of sizes and specifications to meet the screening requirements of various industries. It is widely used in industries involving powdered and granular materials classification, such as chemicals, pharmaceuticals, and food industries.

- Test sieves come in a variety of sizes and specifications to meet the screening requirements of various industries.
- Stainless steel or brass is generally used in the construction of both the frame and the woven wire mesh that performs the straining.
- 8" (200mm) is the most common size.
- Available sizes: 8", 12", 18", 24"

Screens For Milling

3R FILTERS is a leading manufacturer & supplier of Multi Mill Screens, Turbo Mill Screens, Pulverizer Screens, Conical Mill Screens, Cad Mill Screens & many more for all types of chemicals, pharmaceuticals, drugs, food & beverages.

MULTIMILL SCREEN :

Special care is taken to provide proper reinforcing frames for these Multi Mill Sieves. The screen is specially designed to reduce the chance of powder accumulation, and the joints are argon welded to give a longer screen life.

- The most common size is Dia. 265 MM, with a height of 140 MM, available from 0.3mm.
- Strong S.S. 316 perforated sheet for long-term operation.
- These screens come in both framed and perforated sheet forms.

PULVERIZER SCREEN

- The most common sizes are 165X450, 65X180, 224X555, 468X158, and 150X560 MM, available from 0.3mm.
- Strong S.S. 316 perforated sheet for long-term operation.
- These screens come in both framed and perforated sheet forms.

CADMILL SCREEN

- Available in various sizes.
- The most common size is 150mm width x 560mm length.
- Perforation Sizes ranging from 0.5mm to 15mm dia.

TURBO MILL SCREEN

Turbo Mills are cylindrical hammer mills that use a combination of rotary screw & centrifugal actions. These are used mainly for sizing & de-lumping. Sieve parameters like the size and shape of the aperture, pitch & thickness play a very important role in material processing.

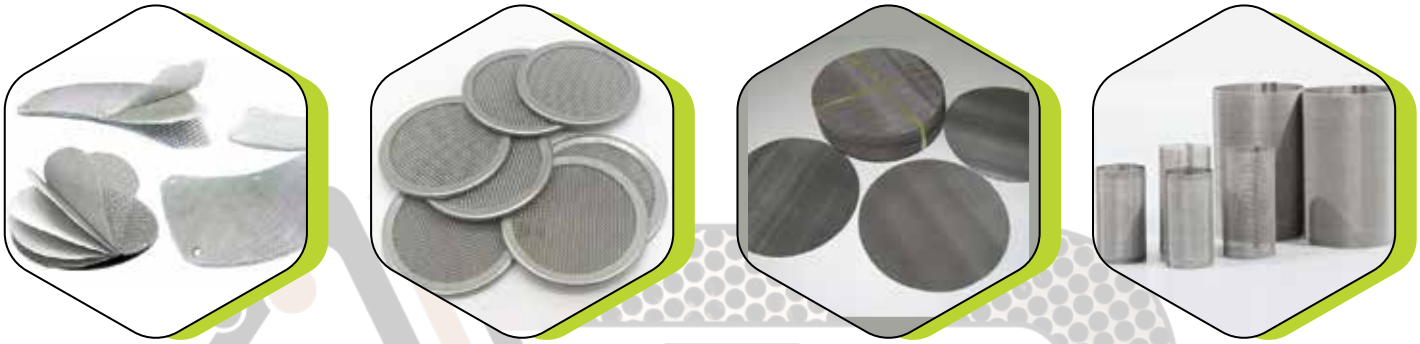
SCREENS ous international and Indian machine manufacturers. Sieves can be tailored to your specifications.

Wire Mesh Screens

Extruder screens (SPIN PACKS)

Extruder filters, also known as extruder screens, are either single-layer or multi-layer wire mesh filtration systems used in the plastic and polymer extrusion processes. It is designed to keep foreign particles from mixing into the final extrusion product and provide a clean and clear extrusion for plastic and rubber processing machinery.

Generally, single-layer extruder filters are commonly used in plastic and blow-film industries where raw material contamination is less and the pressure within the extruder head is lower. while Multilayer extruder filters are commonly used in plastic, fiber, and polymer industries where fine filtration is required to prevent the mixing of foreign particles.



Tri-clamp Screen

Tri-clamp screen gaskets are designed to be interchangeable with standard sanitary clamp gaskets to protect pumps, valves, and other components in fluid lines. It has the widest range of mesh sizes for excellent and efficient particulate collection and filtration in water, acetones, and ketones transmission.

Wire mesh screens Gaskets

This gaskets are made of stainless steel wires in plain or dutch weave meshes. The high quality stainless steel material

Perforated Plate screens Gaskets

Perforated sanitary gaskets are designed as pre-filters for expensive membrane filters or straining particulate in fill and finish products, particulate removal in a numbers or process in industries.

Sock Screens

Sock screen strainers, inserted into the I.D. of stainless steel tubing. The extended sock shaped mesh gasket offers up to 300% more open area for 300% more soil collection capacity than conventional screens.

INDUSTRIAL STRAINERS

A strainer is used to "strain" or "filter" contaminants in a piping system that could flow down the pipeline and damage more expensive pieces of equipment, or spoil a manufacturing process. In effect, a strainer could be viewed as a very inexpensive "insurance policy" to help protect the overall piping system. Strainers are available in many materials, types, and end connections. These various options are designed to help the end user obtain the best possible straining device for their specific applications.

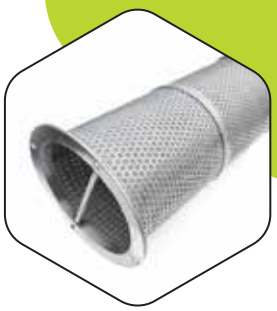
The straining elements are generally made from a wire mesh type screen material or perforated sheet metal. In some cases, depending on size and pressure rating, a mesh unit may additionally include a perforation. Using a perforated material in conjunction with a mesh may be the best way to provide greater strength and stability to the straining element.

Strainers are intended for applications where large or small amounts of filtration are needed, solid particles are expected, and where the clean-out will be frequent.

Basket Strainers / Bucket Strainers

The basket filter element, also known as the bucket filter element, is designed for the cleaning of large amounts of solid particulate. The contaminates are captured and debris is collected in the basket type filter, preventing the debris from entering the pump or returning to flow.

> **"Widespread list of options are available at 3R FILTERS as we manufacture as per your request or sample and different types of strainers that come in different diameters, lengths, perforation and mesh can be done from small to large quantities."**



Y-Strainer Elements

Y strainer elements are devices for mechanically removing solids from flowing liquids or gases by means of a perforated or wire mesh straining element. They are used in pipelines to protect equipment such as pumps, meters, control valves, steam traps, and regulators.




S.S Slanted Basket Strainer Element

The Slanted basket element is the heart of a strainer . After a particular type of strainer housing has been selected, equal concern should be given to the basket or screen design and the perforation or mesh size, for this alone determines the ultimate functionality and performance of the strainer. Baskets are specially designed to retain accidental or recurrent particles that are harmful to a process.



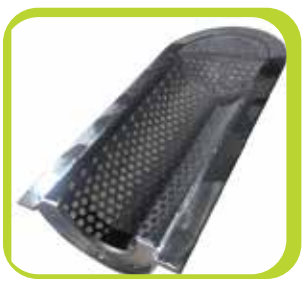
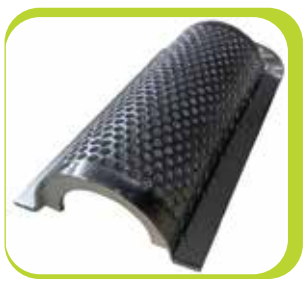

Conical Strainer Element

Cone filter, also known as temporary filter, is a type of cone shaped filter element. According to bottom's shape, it can be classified into sharp bottom cone filter disc, flat bottom cone filter disc.




TEE Strainer Element

A tee strainer is put in a section of pipe to filter out contaminants and debris from a fluid process. Tee strainers can connect to the piping in a variety of ways, such as bolted flanges, threaded piping, and occasionally welding.

Filter Housings

Simplex Basket Strainers

Industrial basket strainers are used for removing particulates from processes and re-circulating water. These are usually installed on the incoming water supply to protect downstream components like valves, pumps, and heat exchangers.
Our simplex basket strainers come with a removable and cleanable basket.
Unfiltered liquid enters the basket housing and passes down through them. Solids are retained inside / outside of the basket depending upon design and are removed when the unit is serviced.
These can be supplied with inline connections for quick and easy installation.

Duplex basket strainers

- Duplex strainer housing /Duplex filters provide a simple, cost-effective way to separate particle impurities from fluid systems.
- The Duplex basket filter & strainer permits continuous operation because flow can be switched back and forth between two filter sections. This allows one side to be serviced while the other is in use.
- Duplex strainer housings are ideal for applications where continuous flow must be maintained with no flow interruption for cleaning.
- These duplex strainers have a butterfly valve that directs flow through either side without shutting off the flow.
- These duplex strainers and duplex filters protect pumps, engines, nozzles, valves, heat exchangers, and other expensive pipeline equipment from harmful flow contamination by catching dirt and debris.



Sanitary Cartridge Filter Housing

The cartridge filter housing is also known as the sanitary filter housing. The liquid goes through the filter under pressure, residue is left on the filter, and the filtrate outflow through the filter can effectively remove impurities in the water, sediment, suspended solids, and bacteria. Our robust housings are constructed out of 316L stainless steel to ensure your housing's longevity and continued operation.

- Available in both **single and multi-cartridge** housing models.
- **Inlet/outlet:** Tri-clamp, Thread, Flange.
- **Suitable filter cartridges:** PP pleated cartridges, wire mesh pleated cartridges, PP melt-blown
- **Cartridge Length:** 5", 10", 20", 30", and 40"
- **Cartridge connector:** SOE, DOE, Type 222 & 226.
- **Cartridge Capacity:** 1, 3, 5, 7 rounds, etc.



Bag Filter Housing

- Bag filters are widely used for liquid filtration. They can remove particles of different sizes from liquids in order to achieve liquid filtration, purification, separation, and recovery purposes.
  It consists of three parts: bag housing, supporting basket, and filter bags.
- According to flow rate, you may use multiple bags in a bag housing.
- Filtration takes place from inside to outside.
- **Bag size:** Ø 4"x10 • Ø 4"x20" • Ø 7"x17" • Ø 7"x32" etc.
- **No. of bags** : 1, 2, 3, 4, 5. Etc.

Magnetic Filters

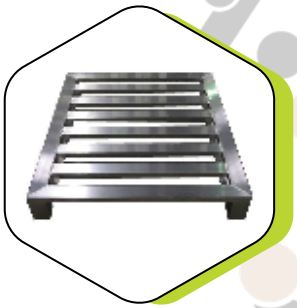
Commonly used within liquid pharmaceutical production systems, magnetic filters are useful when purity within the medium is required. Magnetic filters are most frequently used to remove iron particles from liquid media.

When magnetic filters become full to their capacity, they can be removed, cleaned, and reused.

Magnetic filters have multiple magnetic bars, mounted in a cascade arrangement, one after the other. This ensures that the product must contact or come very close to the magnetic bars.

Pharmaceutical Stainless Steel Accessories & Equipments

Our offered range comprises of S. S. Pallets, Stainless Steel Round Container / Drum, S. S. Trolleys, etc. The offered equipment is manufactured using excellent grade raw material in compliance with set industry standards. The equipment offered by us is available in various specifications and numerous customization options. Highly demanded, this product can be availed at reasonable prices from us.

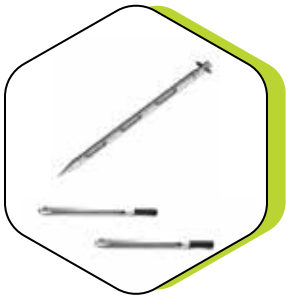


S.S Pallet

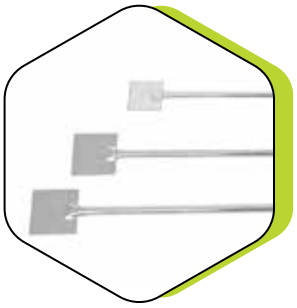
S.S Drums/ Containers

S.S Scoops
(Closed type & Open Type)

S.S Liquid Sampler



S.S Powder Samplers



S.S Scrapper

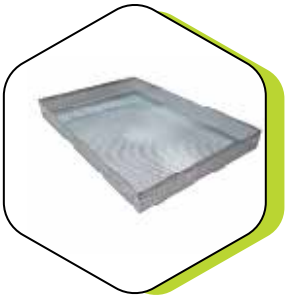
S.S Spatula

S.S TROLLEYS

S. O. P. Stand

Petri Plate Stand

Stainless Steel Rack



S.S Oven Tray

Get Filtration Parts such as
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screens, Housings for Your Industry Today !

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