



FCP TIMES

A MONTHLY NEWS LETTER FOR FLUID
CONVEYANCE PRODUCTS INDUSTRY



India's Defence Manufacturing Boom: A Strategic Opportunity for Hydraulics & Fluid Power Industry

India's defence manufacturing sector is undergoing a structural transformation. Driven by the Government's Atmanirbhar Bharat vision, increased defence capital outlay, and a strong push toward indigenisation, the country is rapidly evolving from a major importer to a global defence manufacturing hub.

With defence production reaching record highs and exports growing steadily, this expansion is not limited to aircraft, missiles, and warships alone — it is generating substantial downstream demand across Hydraulics, Fluid Conveyance, Steel, Heavy Engineering, Mining Equipment, and Infrastructure sectors.



For the Fluid Power industry, this is not just growth — it is a strategic inflection point.

Public Sector Defence Giants Expanding Capacities

India's Defence Public Sector Undertakings (DPSUs) remain the backbone of large-scale defence manufacturing.

Aerospace & Aviation Expansion

Hindustan Aeronautics Limited (HAL) continues to scale up production of fighter aircraft, helicopters, and aero-engines. With increasing orders for indigenous platforms, HAL's manufacturing facilities are witnessing capacity expansion and technology upgrades.

This directly increases demand for:

- High-pressure hydraulic actuation systems
- Aerospace-grade hose assemblies
- Precision machined fittings
- Lightweight corrosion-resistant fluid connectors
- Testing & validation systems for hydraulic performance

Aerospace hydraulics demand extreme reliability, traceability, and zero-leak performance — pushing suppliers to upgrade quality standards significantly.

Naval Shipbuilding & Submarine Programs

India's naval expansion is being executed by:

- Mazagon Dock Shipbuilders Limited (MDL)
- Garden Reach Shipbuilders & Engineers (GRSE)
- Cochin Shipyard
- Goa Shipyard

These shipyards are building submarines, frigates, corvettes, and offshore patrol vessels.

Naval platforms require complex hydraulic systems for:

- Steering gear mechanisms
- Deck cranes and lifting systems
- Torpedo launch systems
- Hatch actuation systems
- Stabilization systems

Marine applications demand anti-corrosive, salt-resistant hydraulic components with extended lifecycle performance.

Missile & Strategic Systems

Bharat Dynamics Limited (BDL) is strengthening India's missile production ecosystem.

Missile launchers and mobile defence platforms require:

- Compact high-force hydraulic cylinders
- Shock-resistant hose assemblies
- Precision actuation controls
- Mobile field-operational fluid systems

These systems must function in extreme terrains — deserts, high-altitude regions, and coastal climates.

Rise of Private Sector Defence Manufacturing

Private sector participation has accelerated significantly in the last decade.

Heavy Engineering & Artillery

Larsen & Toubro (L&T Defence) plays a major role in artillery systems, missile launchers, and naval engineering.

Kalyani Strategic Systems Limited has strengthened India's indigenous artillery capability.

Artillery and mobile weapon systems require:

- Recoil hydraulic damping systems
- Stabilization cylinders
- Mobile platform hydraulic leveling systems
- Rugged high-pressure hose routing solutions

Aerospace & UAV Systems

Tata Advanced Systems Limited is actively involved in aerospace structures and unmanned systems.

UAV production growth increases demand for:

- Lightweight hydraulic subsystems
- Micro-fluid control systems
- High-precision actuation components

Expanding Indigenous Ecosystem

Adani Defence & Aerospace and other emerging players are strengthening domestic manufacturing capabilities.

The result is a rapidly growing vendor ecosystem involving MSMEs supplying:

- Forged components
- Precision machined parts
- Fluid connectors
- Sealing systems
- Armoured vehicle hydraulic subsystems

Defence Corridors & Industrial Multiplier Effect

Defence corridors in Uttar Pradesh and Tamil Nadu are creating clusters of manufacturing units, testing labs, and supplier ecosystems.

These corridors generate demand not only for defence equipment but also for:

- Off-Highway construction equipment
- Steel fabrication facilities
- Mining machinery
- Industrial hydraulic power packs
- Infrastructure development projects

Thus, defence investment has a cascading impact across the broader heavy engineering economy.

Impact on Steel & Metallurgy Sector

Defence manufacturing requires:

- Special alloy steels
- Armour-grade steel plates
- High-strength forgings
- Heat-treated precision components

This creates direct growth opportunities for integrated steel plants and forging companies. Increased artillery and armoured vehicle production strengthens demand for heavy-duty forging and machining industries.

Mining & Heavy Equipment Linkages

Mining sector modernization — particularly coal and strategic minerals — supports defence manufacturing by ensuring raw material availability. Simultaneously, mining equipment itself uses:

- High-pressure hydraulic systems
- Hose assemblies for excavators & loaders
- Cylinder sealing solutions
- Hydraulic pumps & motors

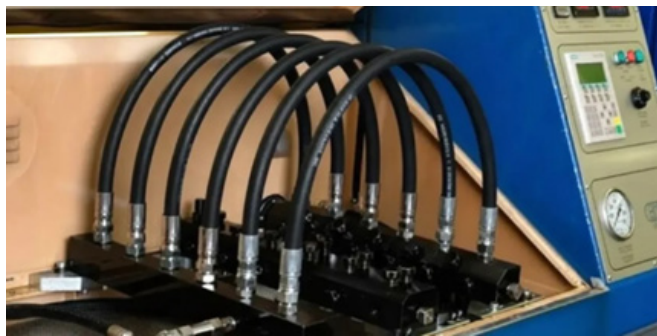
India's defence manufacturing expansion is not an isolated development — it is reshaping the entire heavy engineering landscape.

For the Hydraulics and Fluid Conveyance industry, this is the time to move from being a component supplier to becoming a strategic engineering partner in nation-building.

Importance of Hydraulic Hose Impulse Testing

Hydraulic hoses are critical components of any hydraulic system, and their lifespan plays a vital role in ensuring system efficiency, reliability, and operational safety. In modern hydraulic equipment used across industries such as construction, mining, manufacturing, and mobile machinery, hydraulic hoses are constantly subjected to high pressure, temperature fluctuations, vibration, and harsh operating environments.

Several factors influence the life of a hydraulic hose — including operating conditions, environmental exposure, installation practices, and maintenance procedures. One of the most important methods used to evaluate and ensure hose durability is Hydraulic Hose Impulse Testing. Impulse testing plays a crucial role in assessing the reliability and long-term performance of hose assemblies before they are deployed in real-world applications.



What is Hydraulic Hose Impulse Testing?

Hydraulic hose impulse testing involves subjecting a hose assembly to repeated pressure cycles that simulate actual operating conditions. In real hydraulic systems, pressure rarely remains constant. Instead, hoses experience continuous pressure spikes, pulsations, and pressure reversals during

machine operation.

Impulse testing replicates these dynamic conditions by repeatedly cycling pressure through the hose at controlled intervals and intensities. The objective is to evaluate how well the hose can withstand these stress cycles over an extended period.

By conducting impulse testing, manufacturers and users can gain valuable insights into how a hose performs under demanding operating conditions and whether it meets the performance requirements of a specific application.

Why Impulse Testing is Important

Impulse testing serves several critical functions in the hydraulic hose manufacturing and application process.

1. Quality Assurance

Impulse testing is an essential component of quality control during the hose manufacturing process. It helps identify weaknesses, material inconsistencies, or construction defects that could lead to premature failure.

2. Performance Validation

Hydraulic systems often encounter sudden pressure surges and fluctuations during operation. In some applications such as hydraulic presses, pressure cycles may be predictable and repetitive. In mobile machinery such as excavators, loaders, and mining equipment, pressure spikes can occur unpredictably due to varying load conditions.

3. Safety and Operational Reliability

Hydraulic system failures can have serious consequences. A burst or leaking hose can lead to:

- Equipment damage
- Operational downtime
- Environmental hazards
- Potential injury to personnel

Impulse testing helps ensure that hydraulic hoses can safely handle demanding operating conditions, thereby minimizing the risk of accidents and unexpected system failures.

4. Predictive Maintenance and Lifecycle Planning

Data obtained from impulse testing provides valuable insights into the expected service life of hydraulic hoses. Understanding potential failure points allows engineers and maintenance teams to plan predictive maintenance schedules.

This proactive approach significantly reduces unplanned downtime and maintenance costs while improving overall equipment reliability.

Hydraulic hose impulse testing is a critical process in ensuring the quality, durability, and safety of hydraulic hose assemblies. By simulating real-world pressure fluctuations and operating conditions, impulse testing enables manufacturers and system designers to validate hose performance and ensure long-term reliability.

For industries that depend heavily on hydraulics — including construction, mining, heavy engineering, and industrial manufacturing — investing in properly tested hydraulic hoses is essential for maintaining operational efficiency and safety.

In today's demanding operating environments, impulse testing is not just a quality check — it is a key pillar of reliable hydraulic system design and maintenance.

Importance of Millipore Testing in Ensuring Component Cleanliness

In modern manufacturing, particularly in industries such as hydraulics, automotive, aerospace, and precision engineering, component cleanliness plays a critical role in ensuring system reliability and performance. Even microscopic particles left on components after cleaning can lead to premature wear, blockages in fluid systems, and potential equipment failures.



One of the most widely used methods for evaluating component cleanliness is Millipore Testing. This testing method helps determine the amount of dirt or particulate contamination remaining on a component after the cleaning process.

Millipore testing, also known as gravimetric testing, measures both the quantity and size of particles present on a cleaned component. By providing a quantitative analysis of contamination levels, this method helps manufacturers ensure that components meet the required cleanliness standards before assembly or installation.

What is Millipore Testing?

Millipore Testing is a widely accepted method used to determine the level of particulate contamination remaining on a surface after cleaning. The test measures contamination by collecting and weighing microscopic particles removed from the component surface.

The name "Millipore" originates from the pioneering work of the Millipore Corporation,

which introduced membrane filter technology for microscopic particle analysis. These membrane filters are a key element of the Millipore testing procedure.

Millipore Testing Equipment and Setup

A typical Millipore testing setup consists of several specialized instruments designed to capture, dry, and measure contamination particles accurately. These include:

- Membrane filters to collect contaminants
- Millipore test flask or filtration unit
- Suitable testing media or solvent
- Drying oven for removing moisture from filters
- High-precision weighing balance
- Controlled environment for accurate measurement

Together, these tools help determine the level of particulate contamination remaining on the component surface.

How the Millipore Test Works

The Millipore testing process involves a series of carefully controlled steps to ensure accurate measurement of contamination levels.

1. Cleaning of the Component

The component being tested is first thoroughly rinsed or cleaned using a suitable solvent or testing media. This process removes particles and contaminants from the surface of the component.

2. Filtration

The cleaning solution containing the dislodged

contaminants is then passed through a membrane filter with a precisely defined pore size. The filter captures particles larger than the pore size, ensuring accurate collection of contaminants.

3. Drying

After filtration, the membrane filter is placed in a drying oven to remove any residual moisture. Proper drying is critical to ensure that the final measurement reflects only the weight of the captured contaminants.

4. Weighing

Once dried, the filter membrane is weighed using a high-precision analytical balance.

5. Analysis

The weight of the clean filter is compared with the weight of the filter after contamination capture. The difference between the two weights represents the total mass of contaminants present on the component.

This value provides a quantitative measure of cleanliness.

In hydraulic systems, contamination is one of the leading causes of component failure. Particles trapped in hydraulic circuits can damage pumps, valves, seals, and actuators. For manufacturers and assemblers of hydraulic hose assemblies, fittings, manifolds, and fluid power components, maintaining high levels of cleanliness is essential to ensure system reliability.

Millipore testing therefore becomes an important tool for verifying the cleanliness of components before they are integrated into hydraulic systems.

UltraTech Cement has earmarked ₹2,000 crore in capital expenditure to drive a strategic turnaround for India Cements



UltraTech Cement said it will invest about ₹2,000 crore over the next two years in its subsidiary India Cements to support growth, improve operational efficiency and reduce costs.

The capital expenditure will be directed towards upgrading manufacturing infrastructure and enhancing energy efficiency. Key initiatives include converting four- and five-stage preheaters to six-stage systems, upgrading coolers, optimizing processes to lower heat consumption, and installing 21.8 MW of waste heat recovery systems

(WHRS). The company will also invest in digitization and productivity-led initiatives aimed at improving reliability and reducing power consumption.

As part of its sustainability strategy, UltraTech said green power consumption at India Cements—including renewable energy and WHRS—will be ramped up from about 5 per cent in FY25 to nearly 80 per cent by FY29. India Cements' total cement capacity is expected to rise to 17.55 million Tonnes by March 2027 from 14.75 million Tonnes in December 2025.

Mahindra to Set Up its Largest Integrated Auto & Tractor Manufacturing Facility in Maharashtra



Mahindra Group plans to establish its largest integrated manufacturing facility for automobiles and tractors in Nagpur, Maharashtra, marking a significant milestone in the Group's long-term growth strategy. The announcement was made at Advantage Vidarbha, a three-day flagship event positioning Vidarbha as an emerging industrial growth hub on India's manufacturing map.

The state-of-the-art facility will be developed across an area of 1500 acres in Vidarbha, complemented by a 150-acre supplier park in Sambhajinagar. Once fully operational, the facility will have an annual production capacity of over 5 lakh vehicles and 1 lakh tractors, making it Mahindra's largest integrated manufacturing footprint in the country.

The Vidarbha region offers strong strategic advantages, including excellent road connectivity via the Samruddhi Expressway, robust rail links, easy access to key domestic and export markets, and a rapidly evolving industrial ecosystem. The supplier park at Sambhajinagar

will strengthen the manufacturing value chain through closer partner collaboration, improved logistics efficiency, and enhanced localization. It will supply components to the new Nagpur facility as well as Mahindra's existing ones at Chakan and Nashik. The automotive facility will support Mahindra Auto's next-generation platforms, including the NU_IQ architecture, and will be capable of manufacturing vehicles across multiple powertrains—ICE, EV and future technologies—for both domestic and global markets. Featuring advanced automation and digital manufacturing systems, the plant will reflect Mahindra's focus on innovation, quality and sustainability. The tractor manufacturing unit will further reinforce Mahindra's leadership in the farm equipment sector, catering to growing domestic demand and key export markets.

With these initiatives, Mahindra is committing a comprehensive investment of ₹15,000 crore over a 10-year period in Maharashtra and will acquire over 2000 acres across three locations to further strengthen its manufacturing footprint.

Satrac Opens ₹250 Crore Truck and Trailer Manufacturing Plant Near Chennai



Satrac Engineering Pvt Ltd, the Bengaluru-based trailer and truck body manufacturer, inaugurated its new manufacturing facility at Sriperumbudur near Chennai.

Backed by Japanese firm Kyokuto Kaihatsu Kogyo Co, Satrac has invested ₹250 crore in the plant, with plans to invest an additional ₹70–80 crore over the next two years, said MC Bantwal, Managing Director of Satrac. The facility, South Asia's largest trailer and truck body manufacturing plant, has a production capacity of over 800 units per month, which is expected to rise to 1,000 units within 24 months.

Satrac currently operates two facilities in Bengaluru and Chennai, with a combined monthly production capacity exceeding 1,500 units during peak months. Bantwal noted that the project faced nearly three years of delays due to internal approvals and Covid-19 disruptions.

Hindalco kicks off ₹21,000-crore aluminium smelter expansion in Odisha



Hindalco Industries recently announced a ₹21,000-crore expansion of its Aditya Aluminium complex at Sambalpur in Odisha and commissioned a ₹4,500-crore flat-rolled products (FRP) and battery foil manufacturing facility, reinforcing its expansion push in the State.

The aluminium smelter expansion will add 3.6 lakh tonnes per annum of capacity, while the newly commissioned FRP facility will have an annual capacity of 1.7 lakh tonnes.

As part of the project, Hindalco has also commissioned India's first battery-grade aluminium foil manufacturing plant, which can support up to 100 GWh of lithium-ion cell manufacturing capacity. The battery foil unit will directly source material from the FRP complex, enabling an integrated value chain for electric vehicle and energy storage applications.

The latest announcements form a key part of Hindalco's ₹37,000-crore investment plan for Odisha and contribute significantly to the company's overall ₹55,000-crore growth capital expenditure programme across India. The projects are expected to generate more than 15,000 additional jobs, providing a boost to industrial activity and employment in the region.

Jayaswal Neco inks deal for a 2 MTPA integrated steel plant in Maharashtra, signaling a major capacity expansion

Jayaswal Neco Industries Ltd has signed a memorandum of understanding (MoU) with the Government of Maharashtra to set up a two-million-tonne-per-annum integrated steel plant in Gadchiroli.

The MoU was signed on January 22, 2026, on the sidelines of the World Economic Forum in Davos, Switzerland. The proposed project entails an investment of ₹12,262 crore and is expected to generate direct employment for around 2,600 people.

The company said the project aligns with its commitment to expanding India's steel production capacity and contributing to industrial development in its home state of Maharashtra. Under the agreement, the Maharashtra government will facilitate the company in obtaining necessary permissions, registrations, approvals, clearances and fiscal incentives from relevant state departments in accordance with prevailing policies and regulations.

Technical Training Program for Hose Assemblers – New Delhi

FCP Index & Connections Pvt. Ltd. organized a focused Technical Training Program for Hose Assemblers from Delhi/NCR on February 22, 2026, in New Delhi.

The session covered critical aspects of the hose assembly fabrication process, including proper hose cutting techniques, internal cleaning, correct fitting selection, accurate crimping practices, and essential quality inspection parameters. Special emphasis was placed on understanding the consequences of hose failure—such as equipment breakdown, safety hazards, production losses, and environmental risks.

The training was conducted by Mr. Anoop Pillai and Mr. Ambarish Chatterjee, who shared practical field insights and real-life case experiences, making the session highly relevant and application-oriented.

Participants represented leading industry players including Industrial Hose Corporation, Polyhose, Bharat Traders, Kuber Rubber, SA Enterprises, and Atul Hose. Vijay Engineering etc. The program was conducted in an interactive format, encouraging discussions and knowledge sharing among participants. The initiative reflects FCP Index's continued commitment to promoting quality, safety, and technical excellence in the Fluid Conveyance industry.

India Energy Week exhibition held in Goa

India Energy Week, held in Goa from January 27th to January 30th, witnessed strong participation from leading companies across Oil & Gas, Renewable Energy, Green Energy, Clean Energy, Hydrogen, LNG, and allied sectors—clearly reflecting the dynamic transformation underway in India's energy ecosystem. The exhibition showcased India's accelerating transition toward diversified and sustainable energy solutions, backed by large-scale investments, infrastructure expansion, and policy support.

The Fluid Conveyance domain was well represented by key industry players such as, Hi-Flex, Heliflex, Hy-Tech Engineers, Panam Engineers, Astech India, Swagelok, Essem Works, Merak Hoses, Maximator etc. Their presence underlined the critical role that hoses, fittings, assemblies, and high-pressure fluid systems play in energy infrastructure—from upstream exploration to downstream processing, LNG terminals, hydrogen projects, and renewable installations.

With rapid expansion and significant investments planned across the energy sector, demand for high-performance fluid conveyance products is expected to grow substantially. Applications in hydrogen mobility, LNG handling, offshore platforms, refineries, biofuel plants, and renewable energy projects will drive the need for:

- Advanced hose technologies
- High-pressure fittings
- Corrosion-resistant assemblies
- Clean-energy compatible fluid systems

This momentum opens up strong business opportunities for manufacturers, solution providers, and technology partners operating in the fluid power and fluid conveyance space.



COMMODITY INDEX

Months	Alloy Steel - Forging (20 MnCr5) Rs/Tonne	Alloy Steel - Forging (EN8) Rs/Tonne	Nickel US \$/Tonne	Zinc US \$/ Tonne	Synthetic Rubber SBR	EPDM-Rs. Per Kg	Carbon Black-Rs. Per Kg
Feb-25	63000	62000	15274	2799.7	183.12	225.5	109.95
Mar-25	63000	62000	16054	2778.9	185.5	225.5	111.69
Apr-25	63250	62250	15209	2625.3	186.57	225.5	101.07
May-25	64000	63000	15324	2646.2	195.03	225.5	98.59
Jun-25	62250	61250	14989	2650.9	187.88	225.5	108.59
Jul-25	62000	61000	15023.3	2758.8	184.18	220.45	113.05
Aug-25	62000	61000	14909	2784.4	174.33	219.12	105.68
Sep-25	61250	60250	15102	2930	177.57	216.76	102.9
Oct-25	61000	60000	15079.8	3149	177.44	215.11	99.55
Nov-25	60250	59250	14689	3187.4	176.52	212.16	96.16
Dec-25	60000	59000	14878.9	3159.7	161.7	211.48	96.3
Jan-26	60800	59800	17844	3220	155.59	207.7	93.5

BACKHOE LOADERS SALES IN INDIA - 2026

Month	JCB	Excorts	Mahindra	Case	Tata Hitachi	Bull Machines	Bobcat	CAT	Manitou	ACE	Total 2026	Total 2025
Jan	3723	21	58	137	116	331	63	81	55	67	4652	5158
Total	3723	21	58	137	116	331	63	81	55	67	4652	5158

COMPACTORS SALES IN INDIA - 2026

Month	Case	HAMM	Dynapac	JCB	L & T	Excorts	Volvo	AMMAN	Others	Total 2026	Total 2025
Jan	130	140	63	83	42	2	18	20	10	508	410
Total	130	140	63	83	42	2	18	20	10	508	410

EXCAVATORS SALES IN INDIA - 2026

Month	Tata Hitachi	JCB	Hyundai	Sany	Kobelco	CAT	Komatsu	Volvo	Liugong	XCMG	CNH	Yanmar	Bobcat	Kubota	Total 2026	Total 2025
Jan	700	673	676	397	178	143	206	83	158	249	5	42	36	50	3596	
Total	700	673	676	397	178	143	206	83	158	249	5	42	36	50	3596	

MOTOR GRADERS SALES IN INDIA 2026

Month	XCMG	CAT	M&M	Liugong	SDLG	Sany	Case	SEM	Komatsu	Total 2026
Jan	0	19	32	18	3	12	0	4	0	88
Total	0	19	32	18	3	12	0	4	0	88

TRACTORS SALES IN INDIA - 2026

Month	M & M Group	TAFE Group	Sonalika	Escorts Kubota	John Deere	New Holland	Captain	VST	Others	2026	2025
Jan	47906	21274	15376	12495	7895	5336	341	399	2188	113210	92337
Total	47906	21274	15377	12495	7895	5336	341	399	2188	113210	92337

AUTOMOBILE SALES IN INDIA - 2026

Month	2- Wheelers	3- Wheelers	Personal Vehicles	Commercial Vehicles	2026	2025
Jan	1852870	127134	513475	107486	2600965	2038982
Total	1852870	127134	513475	107486	2600965	2038982



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Access to Fluid Conveyance Group (Gulf)	✗	✗	1 Group
Access to Fluid Conveyance Group (SARC Countries)	✗	✗	1 Group
Access to Monthly Newsletter FCP Times	✓	✓	✓
Support on liquidation of Slow-moving and dead Inventory of Fluid Conveyance Products	✓	✓	✓
Sourcing Support on Fluid Conveyance products	✗	✓	✓
Tender News (On Hoses, Hose Assemblies, Fittings etc.)	✓	✓	✓
Drafting & Implementing Job Route Cards	✗	✗	✓
Plant Layout with process flow excellence	✗	✗	✓
Drafting / Implementing SOP / Work Instructions / Safety Plans / Process Flow	✗	✗	✓
Training - Fittings Threads identification	✗	✗	2 Days
Training - 9C' of Making Hose Assemblies	✗	✗	1 Day
Hose/Hose assembly/Hose Fittings Failure analysis support.	✗	✗	✓
Assistance on GEM Portal registration	✗	✗	✓
Inventory Management Systems	✗	✓	✓
Ask the experts (FCP Team)	✗	✗	✓
Festival Promotional Banners	5	5	10
Creating and Updating LinkedIn Page	✗	✗	✓
Job Reference Support	✗	✗	✓
Classified ad in FCP Times	✗	✗	3
Company Profile Presentation (PPT)	✗	✗	1

For more details get in touch at 7507000150 or at info@fcpindex.com