

DREDGING HOSES AND APPLICATIONS



MITHRA FLUIDTRANS PRIVATE LIMITED





INTRODUCTION:

MFTL are the principal manufacturers of rubber products since 1984 are now in the market with the complete range of Hand Built Hoses, Hydraulic Hoses, Industrial Hoses, Spiral Hoses, Dredge Hoses, Hose assemblies with end fittings as per specification IS, BS, ASTM, SAE, DIN and IRS Standards.

MFTL an ISO 9001 : 2015 Certified company developing technically challenging products including import substitutes for majority of the products

It caters to every industry ranging from Mining, Steel, Petroleum, Chemical & Fertilizer, Construction, Rice Mills, Ports and Automobiles sectors. MFTL also exports some of its products to various countries such as Australia, UK, USA, Saudi Arabia and UAE etc.,



DREDGING HOSES:

Dredge hoses demand reliability and safety which will withstand even the most extreme working conditions. Making these hoses is a job in itself. Our performance enjoys a great deal of confidence and dredge fleet are equipped with our products.

We have every range of dredge hoses required by dredger manufacturers. We offer reliable products, designed and produced using the very latest technology and methods and tried and tested in practice.

We are pioneers in offering all rubber hoses, bellows, reducers etc., in Indian market "on par" with the world renowned players.

We operate from vijayawada, India, MFTL Stands for 34 yrs of expertise in rubber material handling hoses.



DESIGN CRITERIA

Indian industry is slowly maturing. Majority of the users are still not aware of important aspects like type of flow rate, material quality, grade, specific gravity of the material which will have direct impact on hose performance. So looking at the above aspects we design our hoses considering the following important points.

Sea conditions

Safety factor

Floating line type

We are also using simulating program to design our hoses specifically to know the life span of the product.



A dredge hose from MFTL is a reliable product all along the line. This reliability is guaranteed in a number of ways. Because of their high level of wear resistance and flexibility, rubber material handling hoses are, by nature, ideal transport lines. Hoses from MFTL have proved to have a very long life in practice, even when pumping highly abrasive media. Over dimensioning is added to this excellent starting point in the design phase; we always make a dredge hose much thicker than specified. This safety margin is used to give the hose an additional shield against unforeseen circumstances. Other guarantees of safety and reliability are provided by our production control and test facilities. We can issue test reports for our products at the customer's request. But most of the tests which we carry out are intended for our own research. We also want to be sure at all times that we adequately satisfy all test and inspection requirements throughout the manufacturing.

PRODUCT RANGE



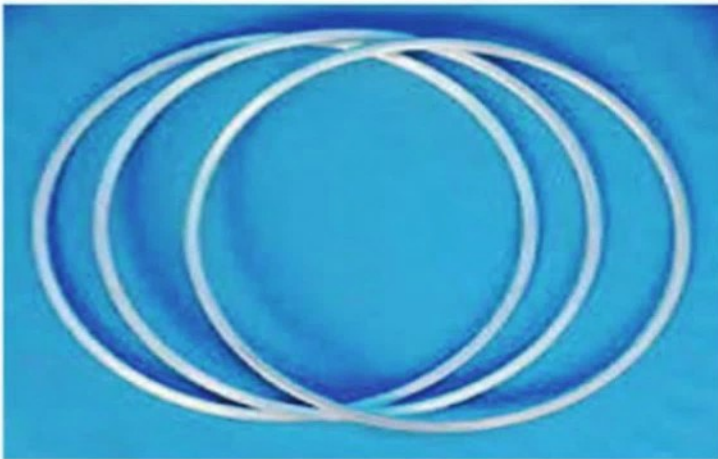
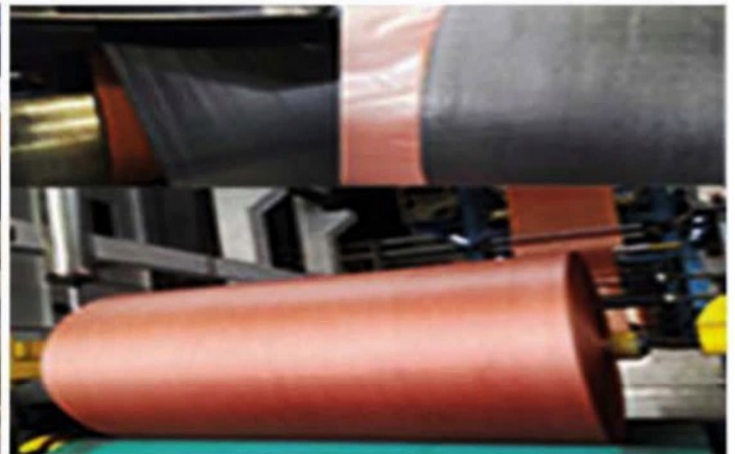
Our company is geared up for fast and flexible delivery of tailor-made products to all corners of the world. Our Production facilities and capacity have been carefully tuned to this requirement.

We offer a full range, which is divided into the following product groups:

- Pressure hoses
- Suction hoses
- Special types, like Elephant Trunk hoses
- Floating hoses
- Expansion joints / Bellows
- Reducers & Rubber bends
- Armoured Hose
- Jet Hose

(ID up to 1000 mm)

The products are manufactured under strict controlling systems, tested as per national, international and customer specified standards. Our manufacturing facilities are controlled by PLC controlled machines conforming to the strict quality requirements and standards.



RAW MATERIALS FOR HOSES

The most important materials for making hoses are rubber compounds, cord materials and components like steel flanges, rings, etc. The compounds are made to our specification, supplied to size and processed by our own factory.

That is extremely high wear resistance with flexibility at very low temperatures and resistance to abrasion, prolonged exposure to sea water of different compositions and storage under tropical conditions.

The cord material we use is strictly selected for quality and function. We work with traditional materials, like rayon and polyester, but we also use new types of material, like aramide.

A material handling hose from MFTL is always a tried and tested solution. It is designed to work impeccably in practice, from all points of view. With this in mind, our designers have developed and perfected a compound program.

The products are manufactured under strict controlling systems, tested as per national, international and customer specified standards. Our manufacturing facilities are controlled by PLC controlled machines conforming to the strict quality requirements and standards.

Different types of flanges and couplings available as standard

1. Straight ends for low pressure

A hose with straight ends can be connected in many ways. However, although cheap, this type of connection is only suitable for low pressures. One disadvantage is that when it is fitted in the pipe, it obstructs the flow through the hose. However, at low flow speeds, the turbulence caused by this is of secondary importance.



2. Low pressure collar

A hose with collars does not have this disadvantage. The end is widened so that the connector does not obstruct the flow when inserted. However, hoses with collars should also only be used in low pressure applications.

3. Rubber flange-steel backing flange for medium pressure and vacuum

This flange is used for medium pressures in suction hoses. The rubber flange means that the hose can remain relatively short, starting from a maximum angle of curvature. And because the wear layer of rubber extends partly into the top edge of the flange, it forms a good seal with the flange connection itself.



4. Rubber flange, steel backing flange and gasket flange for larger bore suction-discharge applications.

Proper sealing at higher pressures is one of the main advantages of this flange system. The integrated steel insert flange at the flange face keeps the flange connection tight even at higher axial loads and pressures. It also protects the flange from damage due to raised face flange edges. In many occasions this flange is a cost effective alternative for the Double Action flange or laminated flange.



5. Steel couplings vulcanized in for extreme working conditions

Our solid steel couplings are suitable for heavy and very heavy duty applications. They can be made with the smallest possible pitch circle diameters and are vulcanised into the hose. These couplings are also secured with our safety strap system for extra safety. We use these couplings as standard in our self floating hoses so that you can work during bad weather without the risk of a defective line



6. Swivel flange

The swivel flange is used with medium service pressures at points where the bolt holes in the mounting flanges are not precisely aligned. The swivel flange simplifies fitting between 2 fixed points.





PRODUCTION FACILITIES

To guarantee fast and efficient production of our wide product range, we have setup production lines/ layouts under strict controls from our design department. These lines are flexible and can be set up to suit any requirement. We have a wide range of mandrels, semi-automatic winding machines and a number of different autoclaves for the technical process. Making a hose starts with the mandrel. Several rubber and cord plies are wound onto the mandrel, depending as per the pre designed specifications. The mandrel plies are then covered with a layer of rubber. This is done to bond the layers, which is very important for the ultimate strength and flexibility of the hose. The vulcanization process depends on the product specification. Finally the hoses made on mandrels are vulcanized in corresponding auto claves. Our quality assurance for rubberizing and processing up to auto claves is carried out as per the in house Quality Assurance Program. This is a skilled operator based system. Each stage in hose production is inspected and signed off by the highly skilled operator immediately on completion.

Presently we are having the following facilities.

Number of Tables for hose building : 6

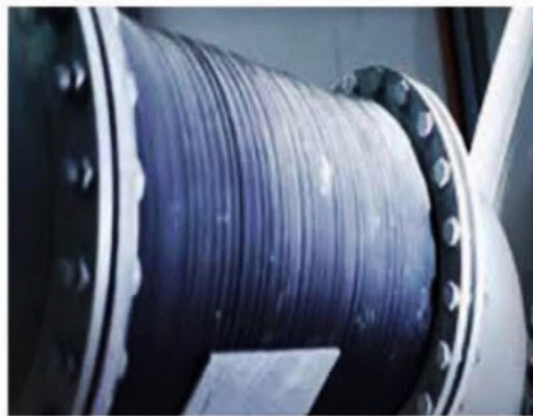
PLC controlled ply winding : 1 + 1

Wire/ Fabric laying : Semi Automatic

APPLICATIONS



Flexible Discharge Hose Pipes



Rubber Expansion Joint



Discharge Line Along with Floaters



Discharge Hose in water pipe line at Kashmir, INDIA

Certificate of Registration

ISO 9001:2015

This is to Certify that
Quality Management System of

MITHRA FLUIDTRANS PVT LTD

RS NO.306/1-9, DOOR NO. 9-190, ASSESSMENT NO. 1347, BAPULAPAD
MANDALAM, VEERAVALLIVILLAGE, NTR DIST - 521110, A.P, INDIA.

has been assessed and found to conform to the requirements of
ISO 9001:2015
for the following scope :

DESIGN DEVELOPMENT, MANUFACTURING & SUPPLY OF RUBBER HOSE
HOSE ASSEMBLIES & MOULDED RUBBER PRODUCTS EXTRUDED &
CALENDARED PRODUCTS FOR RAILWAY, AUTOMOTIVE, MARINE &
INDUSTRIAL APPLICATIONS"

IAF CODE : 14

Certificate No	: 221QLL17
Initial Registration Date	: 10/10/2022
Date of Expiry	: 09/10/2025
1st Surv. Due	: 10/09/2023
2nd Surv. Due	: 10/09/2024


Director



AQC MIDDLE EAST LLC

Head Office: Office No. 02, Ground Floor, Sharjah Media City, Sharjah, UAE. e-mail : info@aqcworld.com.
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Validity of the Certificate is subject to successful completion of surveillance audits on or before of due date. (In case surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawn).
CERTIFICATE VERIFICATION: Please Re-check the validity of certificate at <http://www.aqcworld.com/certifications.aspx> or www.aqcworld.com/Arabic/Clients.
Certificate is the property of AQC Middle East LLC and shall be returned immediately upon demand.



MITHRA FLUIDTRANS PRIVATE LIMITED

QUALITY POLICY

We at "Mithra Fluidtrans Pvt. Ltd." are committed:
To delivering defect free products as our policy and priority is customer first.
It's our constant endeavour to continually improve our Management Systems and Assess Risks, so as to take preventive measures to meet and exceed all our Stake Holders expectations.

To comply with applicable regulatory requirements without undue influence on employees & external parties.

నాణ్యత ప్రమాణము

మేము "మిత్రా ఫ్లూయిడ్ ట్రాన్స్ ప్రైవేట్ లిమిటెడ్" లో కట్టుబడి ఉన్నాము :
లోప రహిత ఉత్పత్తులను అందించడం మా విధానం మరియు ప్రాధాన్యత కస్టమర్ డే.

మా మేనేజ్ మెంట్ సిస్టమ్లను నిరంతరం మెరుగుపరచడం మరియు నష్టాలను అంచనా వేయడం మా నిరంతర ప్రయత్నం, తద్వారా మా వాటాదారుల అంచనాలను అందుకోవడానికి మరియు అధిగమించడానికి నివారణ చర్యలు తీసుకుంటాము.

ఉద్యోగులు మరియు బాహ్య ఏజెంట్లపై అనువరణ ప్రభావం లోకుండా అవసరాలకు నియంత్రణ అనుగుణంగా వర్తించబడుతుంది.

Malyala Venkat Sai Revanth
Managing Director
Date: 01st August 2022

APPLICATIONS



Floating Discharge Line



SUCTION HOSE FITTED TO 34 - 36 - IINCH - DREDGE - CUTTER HEAD

MITHRA FLUIDTRANS PRIVATE LIMITED

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