

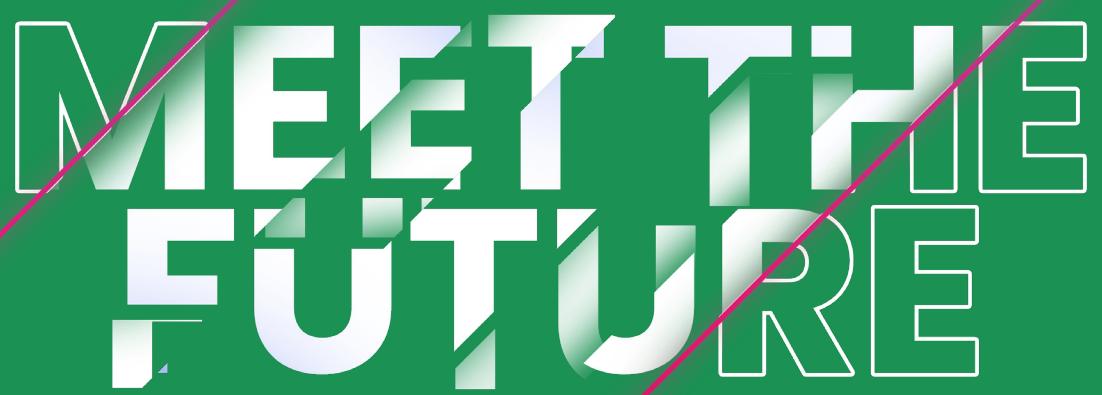
# Hose Solutions

[www.zyfire.com](http://www.zyfire.com)





MEET  
zYfire



MEET THE  
FUTURE

**MISSION OF**  
**ZYFIRE** 

**ENJOY BETTER &  
BRIGHTER FUTURE WITH  
ZYfire**



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# ABOUT COMPANY

ZYfire Hose Corporation (stock code: 871694), was established in 2000. We focus on the research and development manufacturing and sales of lay-flat hoses, made of polyurethane, rubber and plastic alloy, modified PE and other polymer materials, We are a high-tech enterprise specialized in manufacturing through-the-weave extrusion lay-flat hoses, Our products are applied in a variety of fields, including firefighting, industry, agriculture, mining, oil and gas fracturing and no-dig pipe rehabilitation.

ZYfire Pipes Manufacturing Ltd (Abu Dhabi), is located in the China-Arab Capacity Cooperation Demonstration Park in the Khalifa Industrial Zone of Abu Dhabi, UAE, it is a wholly-owned subsidiary established by ZYfire Hose Corporation in response to China's "Belt and Road" initiative.



# ABOUT COMPANY

ZYfire Industrial Company (Saudi Arabia) was established in October 2023, located in the second Industrial Park in Dammam, Eastern Province of Saudi Arabia. It covers an area of 42,000 square meters in phase I, which is one of the largest production bases in the Middle East region of ZYfire Hose Corporation. The company's production equipment and products are independently developed, designed and produced by ZYfire, with independent research and development patents, and the overall annual production capacity is expected to be 10 million meters.

ZYfire has passed ISO9001, ISO14001, ISO45001, API18001 and other system certifications, ZYfire hoses are approved by UL, FM, BS6391, NEPA, MED, EN14540, EN694, CE, NSF61, MSHA, EN671, DIN14811, National Compulsory CCC Certification, China Classification Society CCS certification, etc.



# COMPANY INTRODUCTION

FOUNDED

SEPTEMBER 27, 2023

OCCUPATION

42,000 m<sup>2</sup>

INVESTMENT

30 Million Dollars (already done)

80 Million Dollars (under progress)



## PRODUCTION CAPACITY

TPU layflat hose 4.5 million meters per year

NBR layflat hose 0.5 million meters per year

RTP pipe 2 million meters per year

Fire hose 8 million meters per year

## APPLICATION

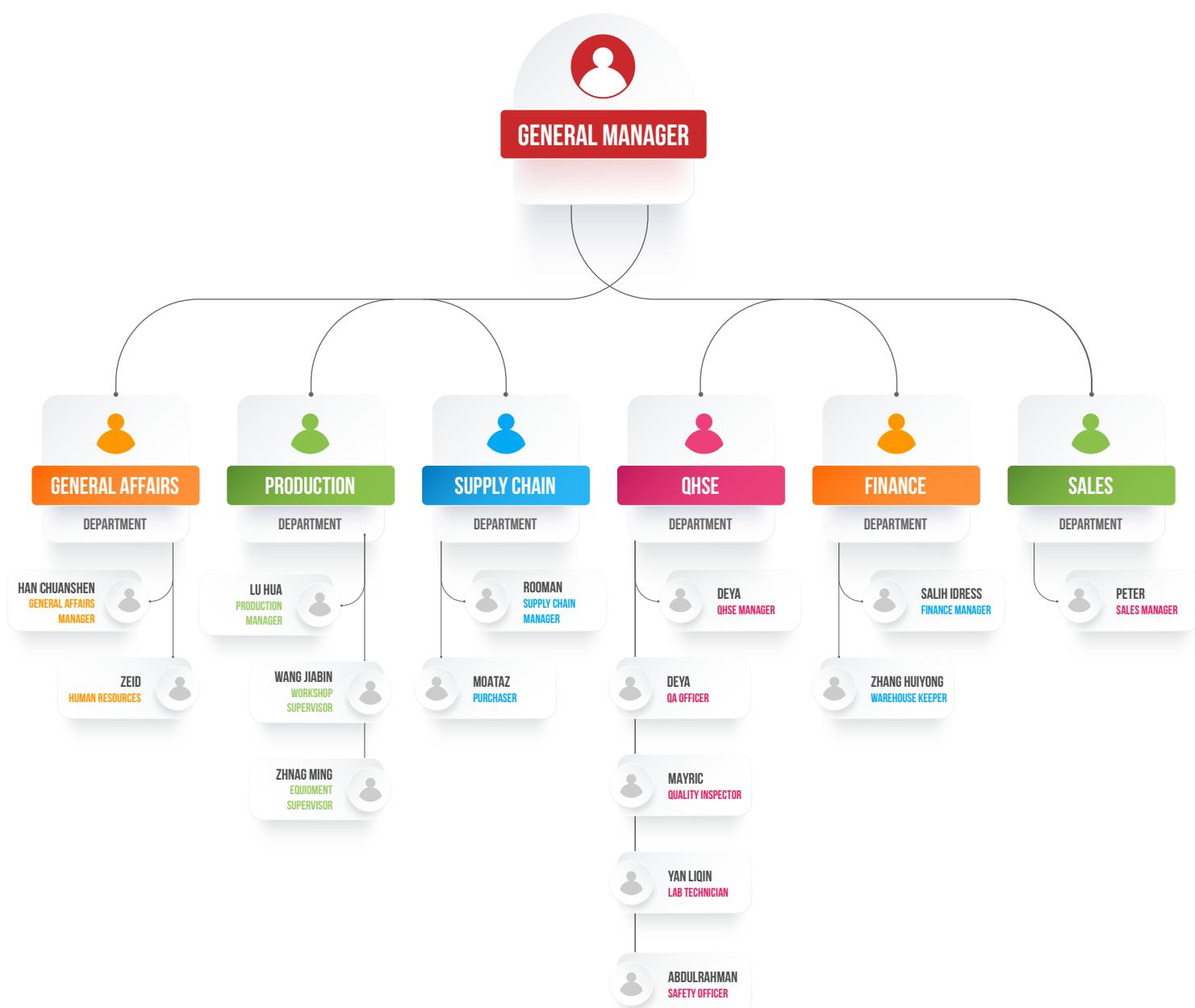
Fire fighting, Mining, Agricultural, Industrial, Oil & Gas etc.

## MARKET

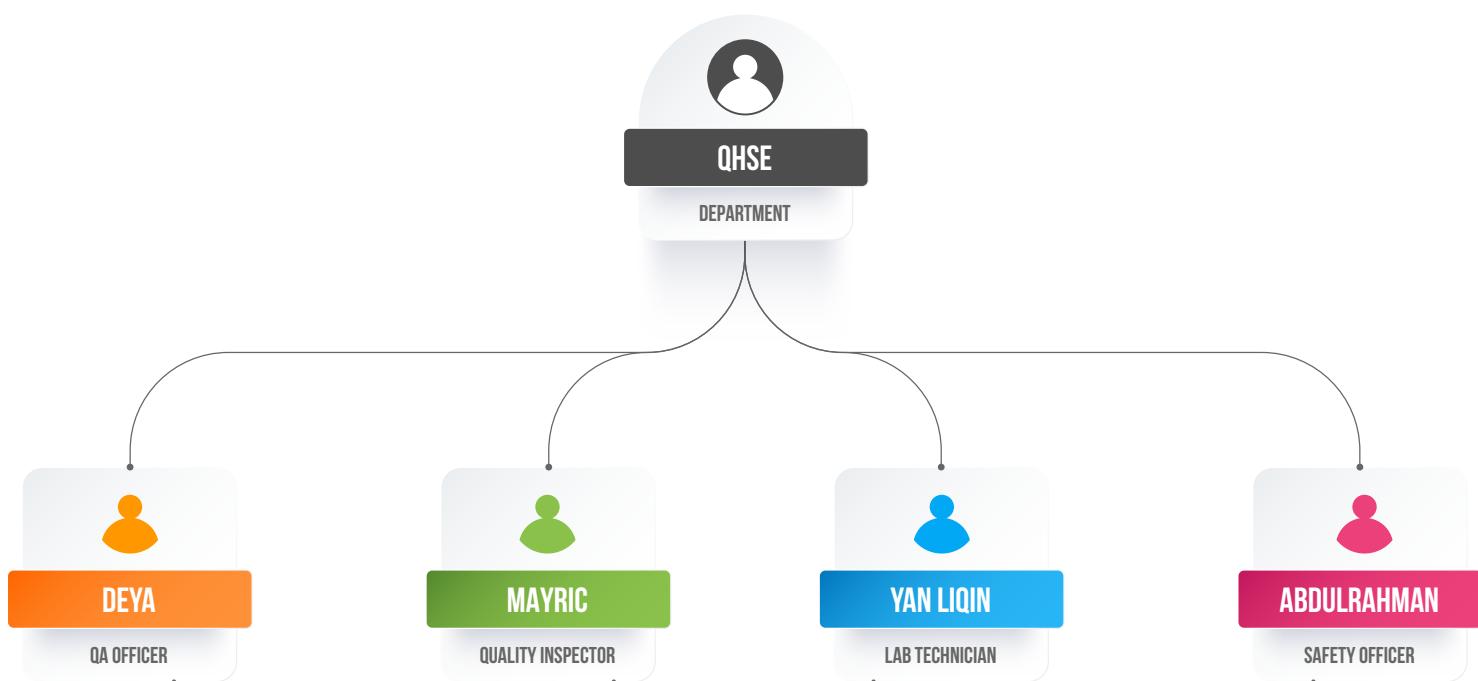
**70%** for local market

**30%** for the other Middle East countries and regions

# ORGANIZATION CHART



# QA/QC CHART

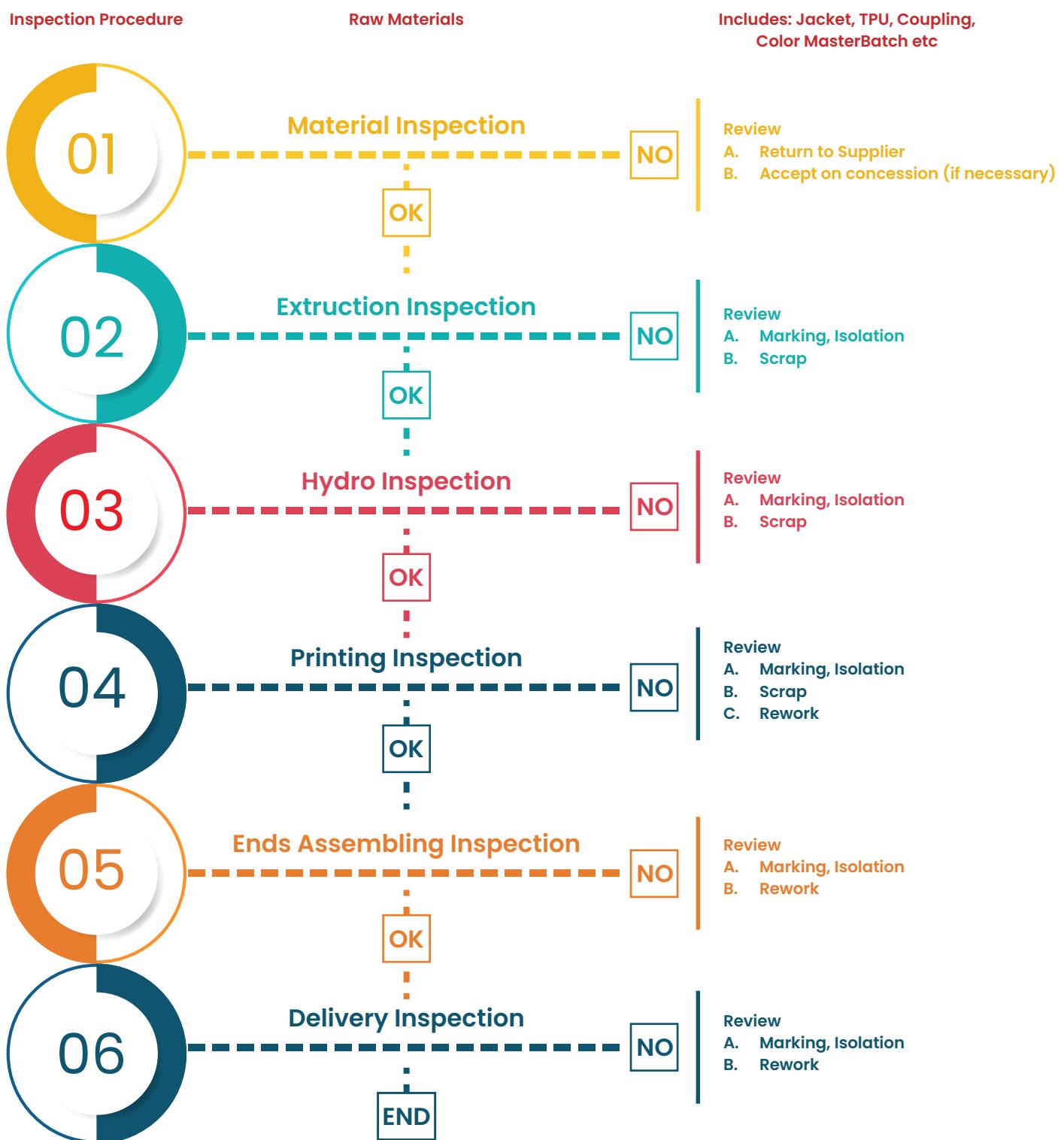


# PRODUCTION FLOWCHART

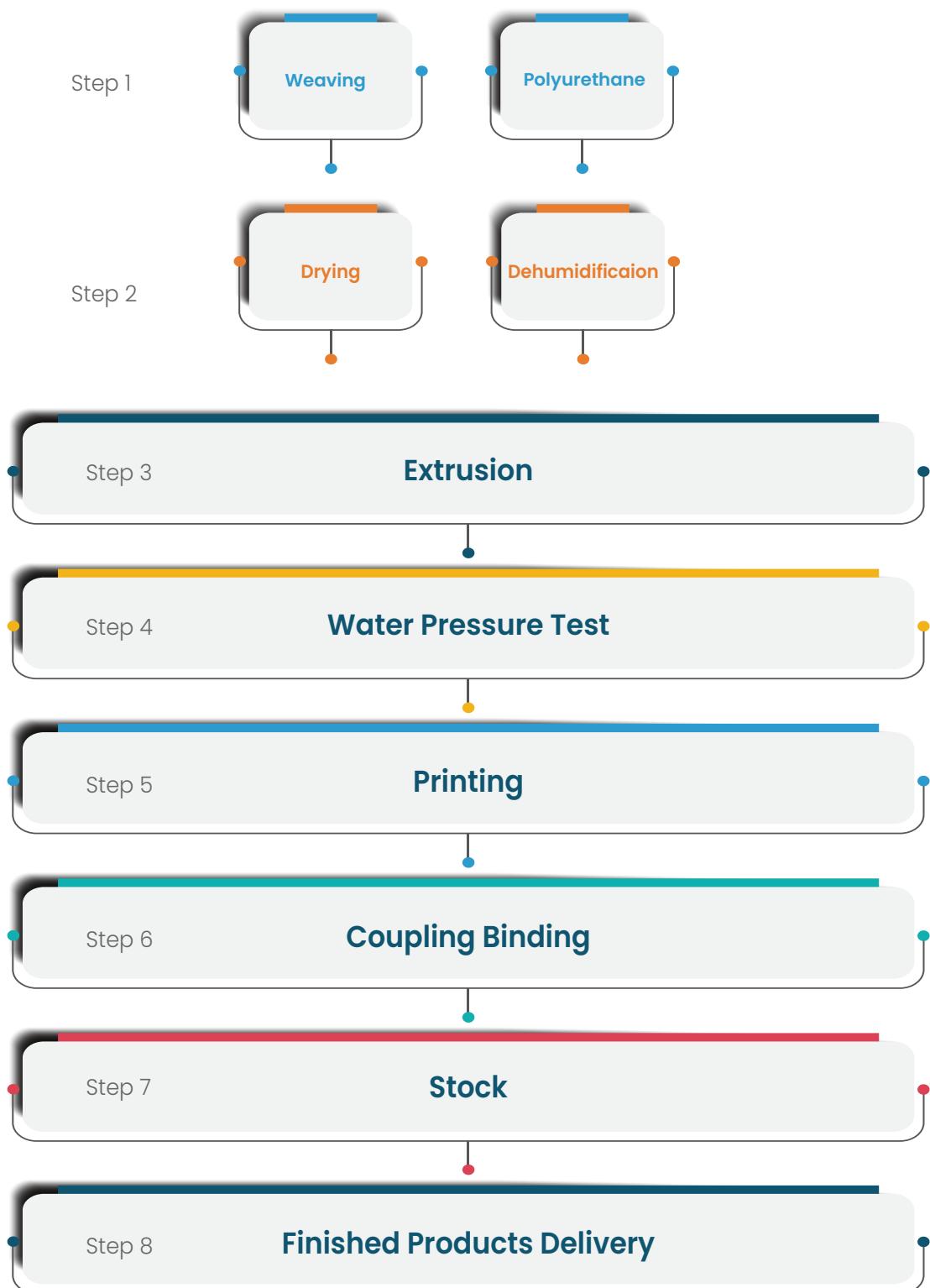
01	<b>Inspection Work Content</b> First, the raw materials will be delivered to the warehouse. Then the identification tag will be attached to the materials, and the warehouse keeper will notify the inspector for inspection.	<b>Responsible Person</b> Warehouse Keeper	<b>Document Title / No.</b> /
02	<b>Inspection Work Content</b> The inspector will inspect the raw materials according to the incoming material inspection standard.	<b>Responsible Person</b> Inspector	<b>Document Title / No.</b> ZYF-IM-WIQ-001 <b>Record Title / No.</b> ZYF-IM-FRM-90
03	<b>Inspection Work Content</b> The inspector will review the Quality Assurance Certificate provided by the supplier.	<b>Responsible Person</b> Inspector	<b>Document Title / No.</b> /
04	<b>Inspection Work Content</b> After the pass inspection, the inspector will stamp the identification tag and fill out the Raw Material Receiving Form, then notify the warehouse keeper.	<b>Responsible Person</b> Warehouse	<b>Document Title / No.</b> /
05	<b>Inspection Work Content</b> The warehouse keeper will process the storage of the raw materials and record the entry in the warehouse inventory ledger.	<b>Responsible Person</b> Inspector	<b>Document Title / No.</b> Warehouse Inventory ledger <b>Record Title / No.</b> /
06	<b>Inspection Work Content</b> If the materials fail inspection, the inspector will attach the unqualified identification tag to the materials, and fill out the unqualified Report, and notify the Supply Chain Department and the	<b>Responsible Person</b> Inspector	<b>Document Title / No.</b> /
07	<b>Inspection Work Content</b> The Supply Chain Department will contact the supplier to handle the unqualified materials. Possible handling methods include concession acceptance and return of goods.	<b>Responsible Person</b> Warehouse Keeper	<b>Document Title / No.</b> /

# INSPECTION FLOWCHART

## TPU FRACFLO HOUSE INSPECTION FLOW CHART



# PRODUCTION FLOWCHART



# PRODUCT TRACEABILITY SYSTEM FORM

01	<p><b>Description</b></p> <p>The Supply Chain Department will issue the purchase order, which generates the purchase batch number of the raw materials.</p>	<p><b>Traceability Method</b></p> <p>Purchase Batch Number</p> <p><b>Record title/No.</b></p> <p>ZYF-IM-FRM-27</p>
02	<p><b>Description</b></p> <p>When the raw materials arrive at the company, the inspector will fill out the material receiving form, which contains the purchase batch number of the raw materials.</p>	<p><b>Traceability Method</b></p> <p>Purchase Batch Number</p> <p><b>Record title/No.</b></p> <p>ZYF-IM-FRM-41</p>
03	<p><b>Description</b></p> <p>After The warehouse keeper receives the raw materials and will fill out the Material Identification Card, which contains the purchase batch number of the raw materials.</p>	<p><b>Traceability Method</b></p> <p>Purchase Batch Number</p> <p><b>Record title/No.</b></p> <p>Material Identification Card</p>
04	<p><b>Description</b></p> <p>When the workshop requisitions raw materials, the Material Requisition Form is filled in with the production order number and the purchase batch number.</p>	<p><b>Traceability Method</b></p> <p>Production Order Number and Purchase Batch Number</p> <p><b>Record title/No.</b></p> <p>Material Requisition Form</p>
05	<p><b>Description</b></p> <p>The workshop will record the production order number on the Production Schedule.</p>	<p><b>Traceability Method</b></p> <p>Production Order Number</p> <p><b>Record title/No.</b></p> <p>ZYF-IM-FRM-28</p>
06	<p><b>Description</b></p> <p>The workshop will record the production order number on the Production record</p>	<p><b>Traceability Method</b></p> <p>Production Order Number</p> <p><b>Record title/No.</b></p> <p>ZYF-IM-FRM-31</p>
07	<p><b>Description</b></p> <p>The Hydrostatic Test Record includes the production order number. Meanwhile, each hose is marked with a unique product serial number using a marking machine.</p>	<p><b>Traceability Method</b></p> <p>Production Order Number and Product Serial Number</p> <p><b>Record title/No.</b></p> <p>ZYF-IM-FRM-91</p>
08	<p><b>Description</b></p> <p>After the hose is delivered to the customer, the customer can provide the product serial number on the hose, then our company can trace back to its production and raw material information.</p>	<p><b>Traceability Method</b></p> <p>Product Serial Number</p> <p><b>Record title/No.</b></p> <p>/</p>

# TEST CAPABILITIES & EQUIPMENTS

## RAW MATERIALS TEST



### MELT FLOW RATE METER

Test the melt index of TPU and other materials



### DRY HEAT SHRINKAGE EQUIPMENT

Test the thermal shrinkage performance of polyester filament, yarn and other materials



### TWIST TESTER

Test the twist of the polyester

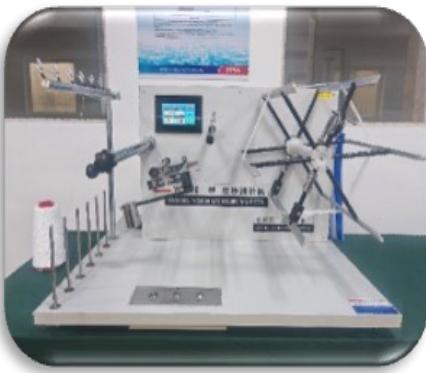
# TEST CAPABILITIES & EQUIPMENTS

## RAW MATERIALS TEST



### SALT SPRAY TEST

Test the corrosion resistance of metal parts such as interfaces



### OPERATING SPECIFICATIONS OF YARN LENGTH MEASURING MACHINE

Test the length and density of the polyester

# TEST CAPABILITIES & EQUIPMENTS

## PROCESS TEST



### SERVO CONTROL TENSILE MACHINE

Test the elongation of rubber hose, breaking strength, breaking strength of polyester filament, etc



### JB-126 STRONG MACHINE

Test the adhesive strength of the hose

# TEST CAPABILITIES & EQUIPMENTS

## FINISHED PRODUCT TEST



### ELECTRONIC SCALE

Weight test



### ABRASION TESTER

Test the abrasion resistance of the hose



### THERMAL AGING TEST CHAMBER

Test the thermal aging property



### BURST TESTING MACHINE

Test hose elongation, expansion rate, blasting performance

# TEST CAPABILITIES & EQUIPMENTS



EACH HOSE UNDER 1.5TIMES  
OF WORKING PRESSURE TEST FOR  
3 HOURS



# PRODUCTION EQUIPMENTS & RAW MATERIALS



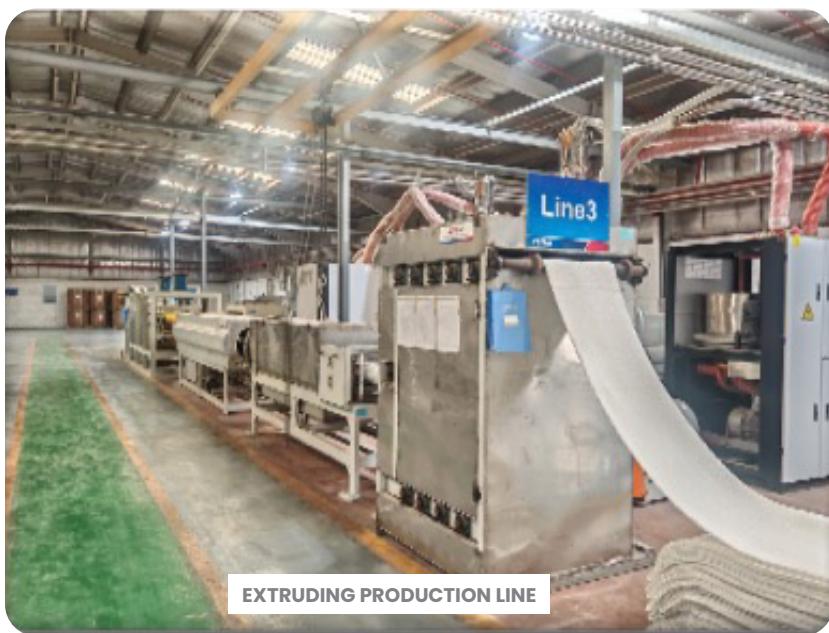
# PRODUCTION EQUIPMENTS & RAW MATERIALS



LASER PRINTING MACHINE



AIR COMPRESSOR MACHINE

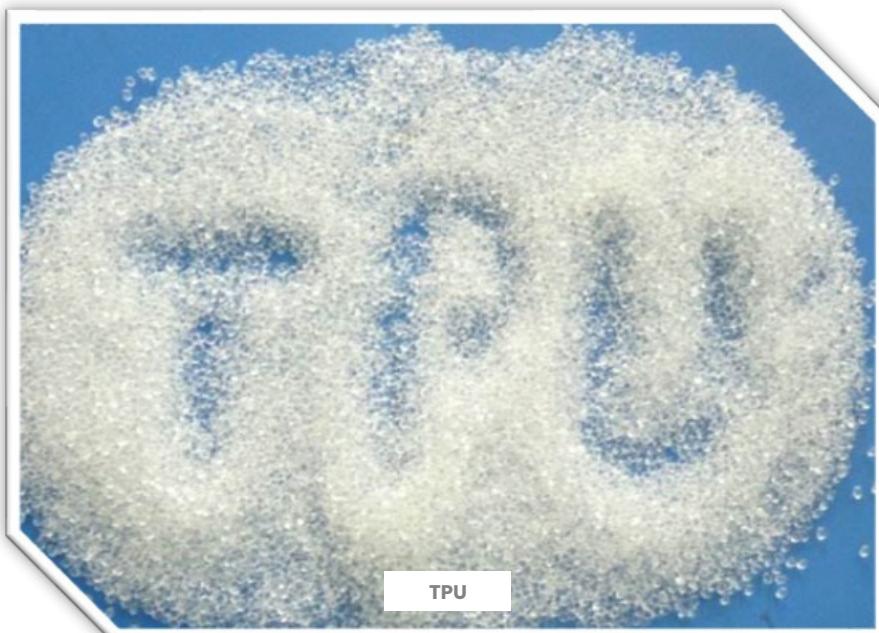
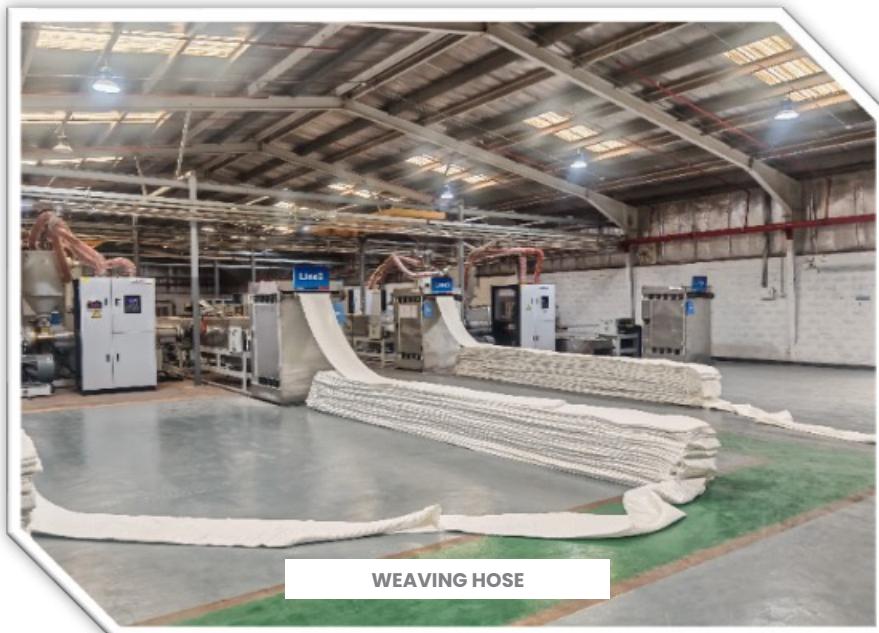


EXTRUDING PRODUCTION LINE



ROLLING MACHINE

# RAW MATERIALS



# EXPERIENCES & RESOURCES



8" & 12" TPU HOSE FOR ARAMCO



# EXPERIENCES & RESOURCES



12"TPU HOSE FOR QATAR ENGEGY



16"TPU HOSE FOR EWA BAHRAIN

# EXPERIENCES & RESOURCES



16"TPU HOSE FOR DUBAI MUNICIPALITY



# EXPERIENCES & RESOURCES

RESOURCES

ENGINEERS

PRODUCT CERTIFICATES

LABORATORY

ASSOCIATION CERTIFICATES

# ENGINEERS



**Dr. TAN JIN KENG**  
Chief scientist

1. Malaysian Chinese, with a doctoral degree in Materials Science and Engineering from Michigan State University in USA;
2. Engaged in materials science, rubber technology and other research work for more than 50 years;
3. Fellow of the Institute of Materials, Minerals and Mining in Britain, fellow of the Malaysian Rubber Board, and member of the Malaysian Rubber and Plastics Association, etc.



**Dr. ZHANG YONGCHENG**  
R&D Director

1. Graduated from Mississippi State University in USA with a doctoral degree in Chemistry;
2. Engaged in research, development, and application of polymer composite materials and coatings for over 20 years;
3. Jiangsu Double-creative Talent, director of a CNAS accredited laboratory, and member of the American Chemical Society, etc.

# ENGINEERS



**Dr.Bu Xiaohai**  
VP of science and technology

1. Ph.D. degree in Applied Chemistry, Southeast University;
2. Mainly engaged in the research of high performance metal materials, polymers and composite materials;
3. Has presided over a number of national, provincial and municipal scientific research projects such as the National Natural Science Foundation and published more than 30 papers.



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R&D



Production



Sale



[www.zyfire.com](http://www.zyfire.com)



Global



MENA

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