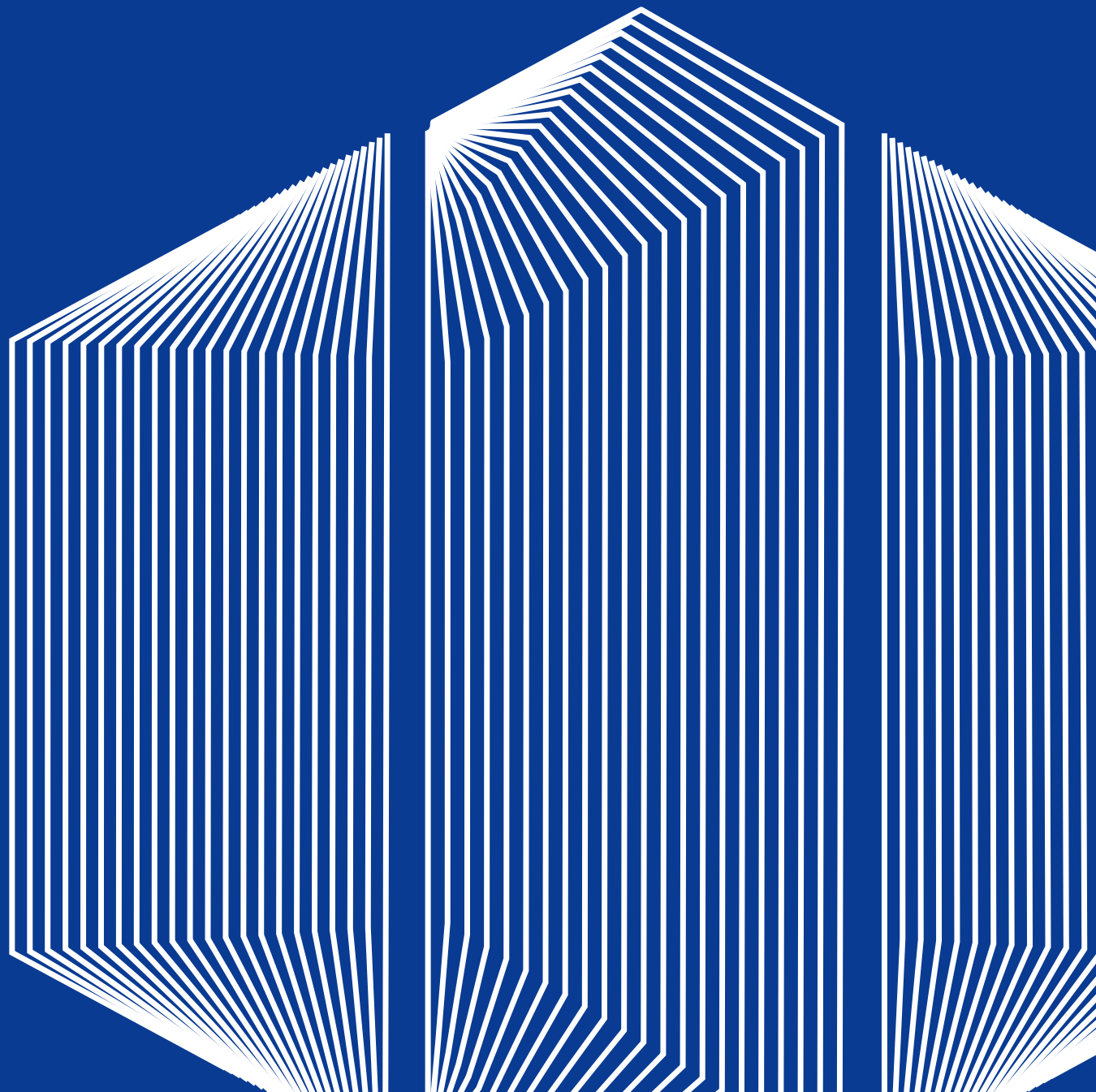


نمذجة  
Namthaja



Innovative Manufacturing Solutions by 3D Printing





## WHO WE ARE?

**Namthaja provides innovative manufacturing solutions based on 3D printing**, offering end-to-end solutions starting from the design phase up to final production for end use.





## OUR VISION

To empower mainstream industries globally thru 3D printing adoption.

## OUR MISSION

To simplify supply chains and revolutionize innovation in products by relying on the power of **on-demand manufacturing, mass customization, and digital inventories.**

# CAPABILITIES



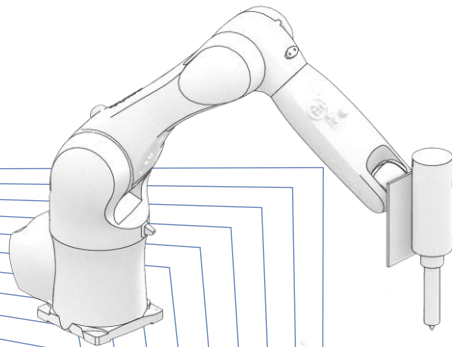
**+40 Employees**  
50% Saudization



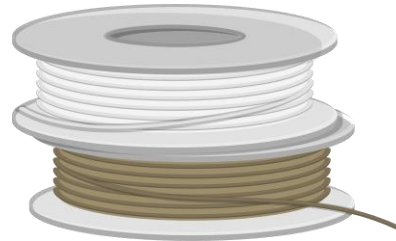
**+70 3D Printers**  
with different sizes and technologies



**largest metal 3D printer**  
in GCC up to 3 meters



**largest composite 3D printer**  
in GCC up to 6 meters



**The only advanced polymers manufacturer**  
such as PEEK and PVDF in the GCC



# ECOSYSTEM



**Namthaja**, a central printing facility, combines industrial engineering know-how with digital platforms, to offer innovative and proficient printing solutions. Supported by three subsidiaries: **AM Unique** for 3D architectural design, **AM Xpert** for consulting and machines supplies, and **Easy 3D** for automated B2C 3D printing.

# 01

**Our Solutions**





# Namthaja Solutions

We provide various solutions that can help your business and facility growth in the context of **IR4.0**

1

## 3D Printing Hubs Network



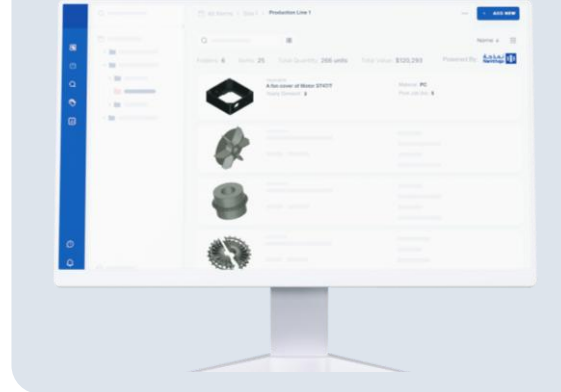
2

## R&D& Engineering



3

## Digital Inventory Platform

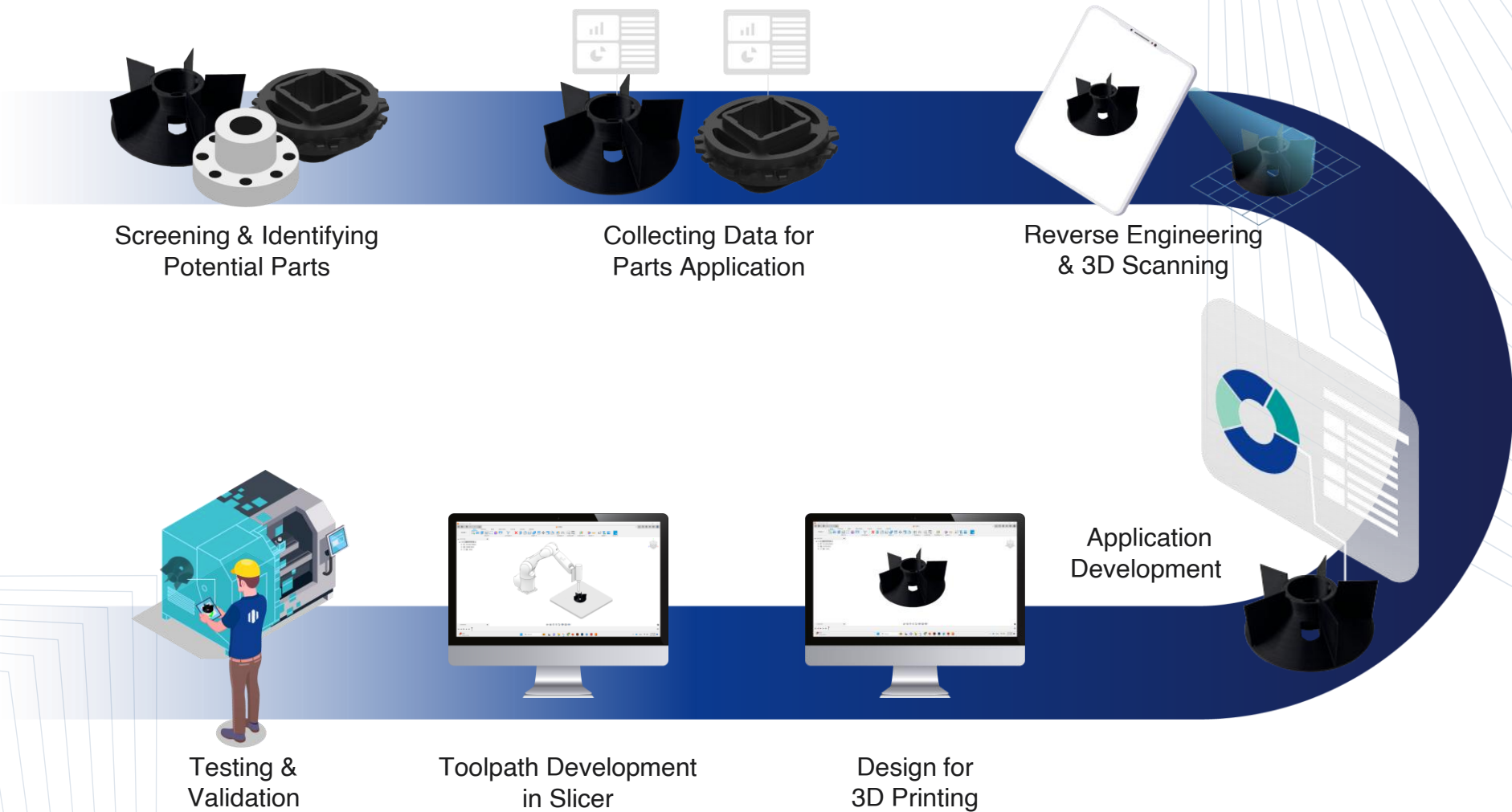


4

## Central Manufacturing Facility



# 1. Application Development and Engineering



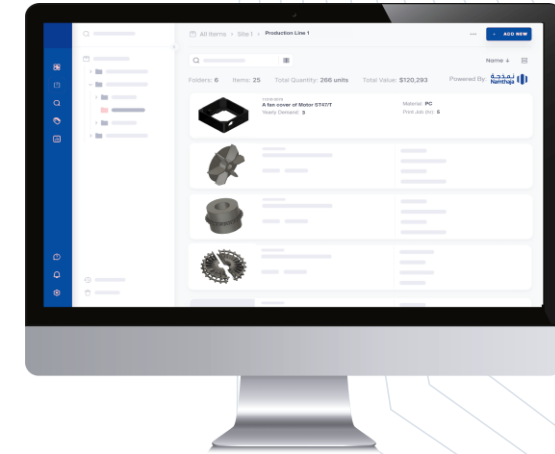


## 2. Digital Inventory Platform

### What is it?

Our custom designed Digital Inventory platform serves two main purposes:

1. Provides a digital catalogue of parts containing all necessary data to produce it once needed.
2. Enable clients to manage their spare parts and manufacturing needs



### How We Successfully Shift to Digital Inventory?



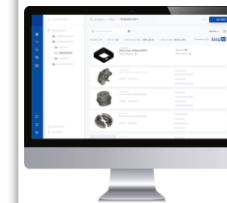
Design the part to be suitable for 3D Printing "DfAM"



Test parts to ensure their reliability



Ensure the availability of production capacity

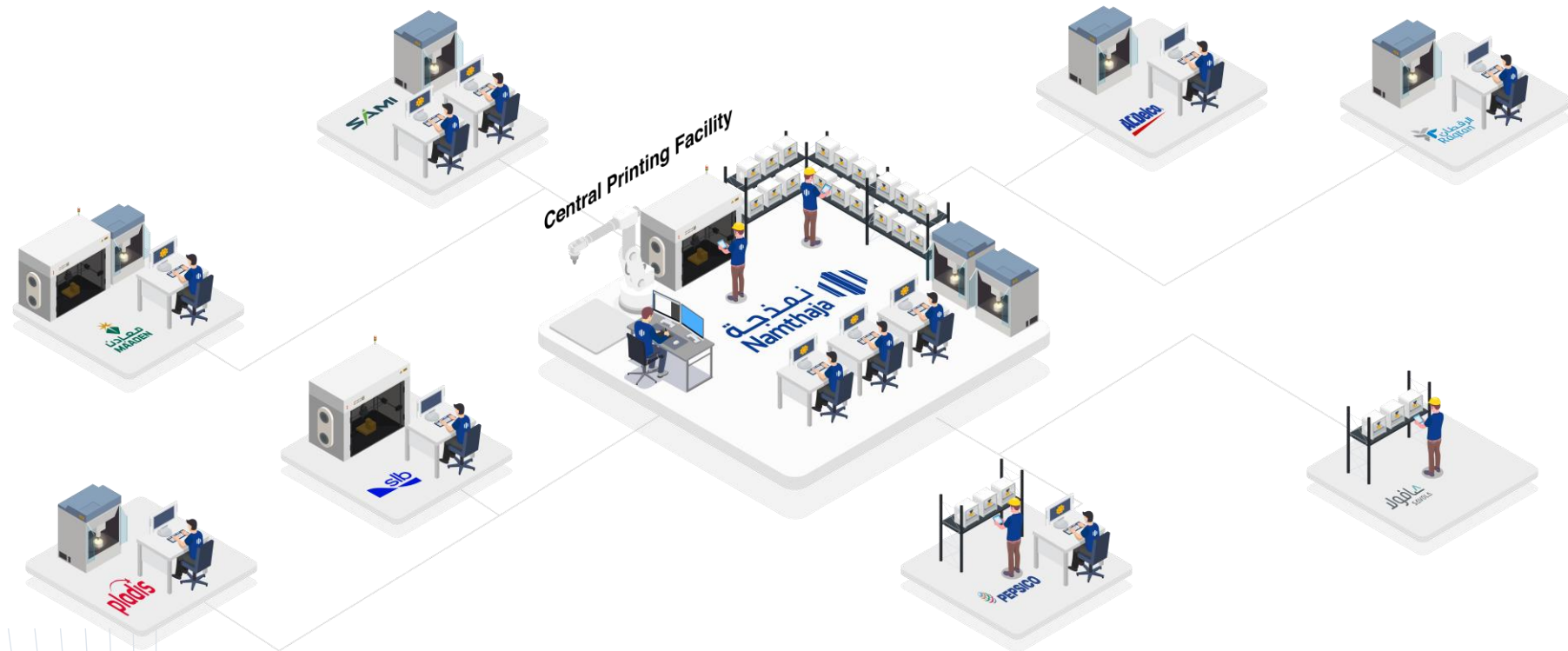


Enable users to browse parts and order them on-demand

### 3. Central R&D and Manufacturing Facility

#### What is it?

Our printing facility follows international standards such as (ISO) for strict qualification. We ensure quality by preserving materials, using calibrated machines, and verifying 3D models before production. We validate parts through various tests, including dimensional inspections, and customize additional tests based on application requirements.



## 4. 3D Printing Hubs Network

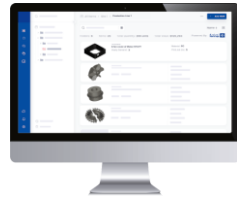
### What is it?

Our 3D Printing Hub offers a comprehensive turnkey solution at a **fixed monthly cost**, ensuring a **low-risk**, accessible entry to **advanced engineering and manufacturing solutions**. Bring cutting-edge AM technologies to **your premises effortlessly**.

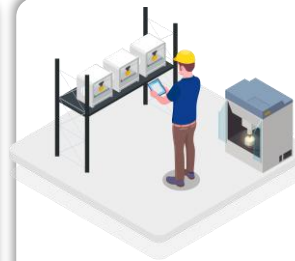
### What will we Provide?



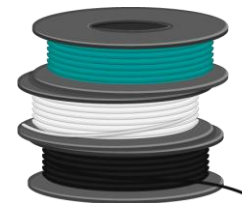
**Experienced  
Engineering  
Team**



**Digital  
Inventory  
Platform**



**3D Printers  
at Your  
Facility**



**Unlimited  
Material Supply**



**Maintenance**

# 4. 3D Printing Hubs Network

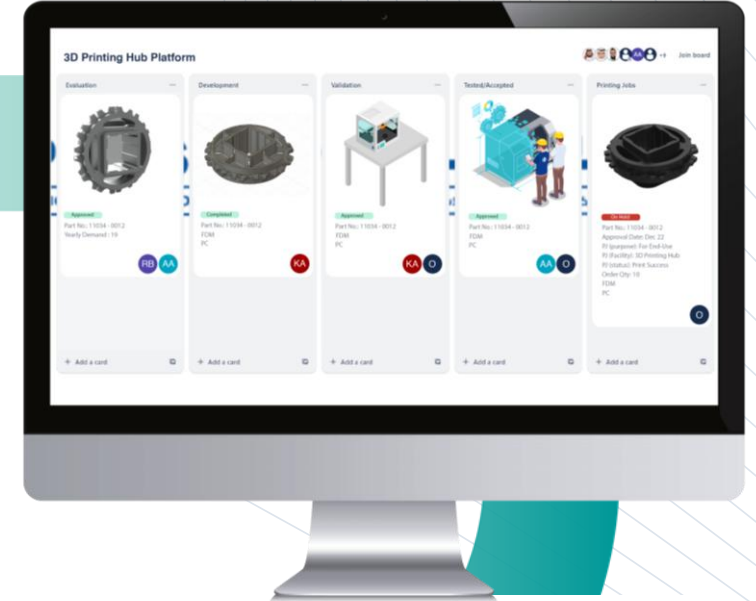
How Do We Execute This Solution?



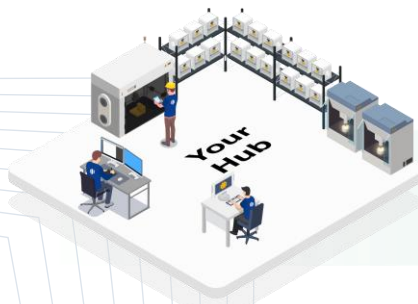
Establish a **3D printing hub** within your premises.



Start **application development** and re-engineering.



Integrating **digital inventory** platform with procurement and planning systems.



**Expand** the hub to include advanced **capabilities**.



Continuously identify and **add new parts** to the digital inventory.

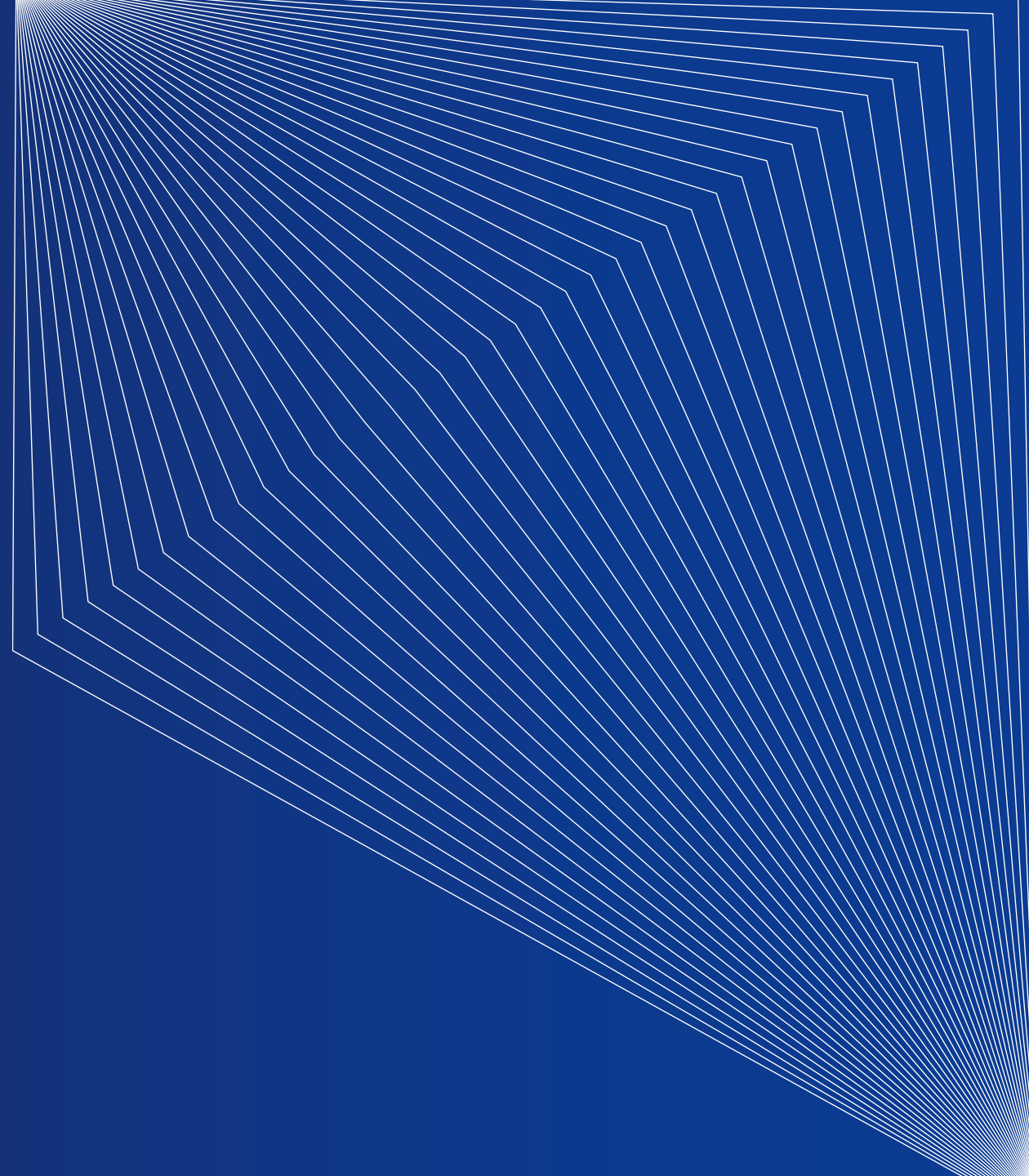


**Produce parts** at the hub or through Namthaja central facility.



# 02

**Served Clients**

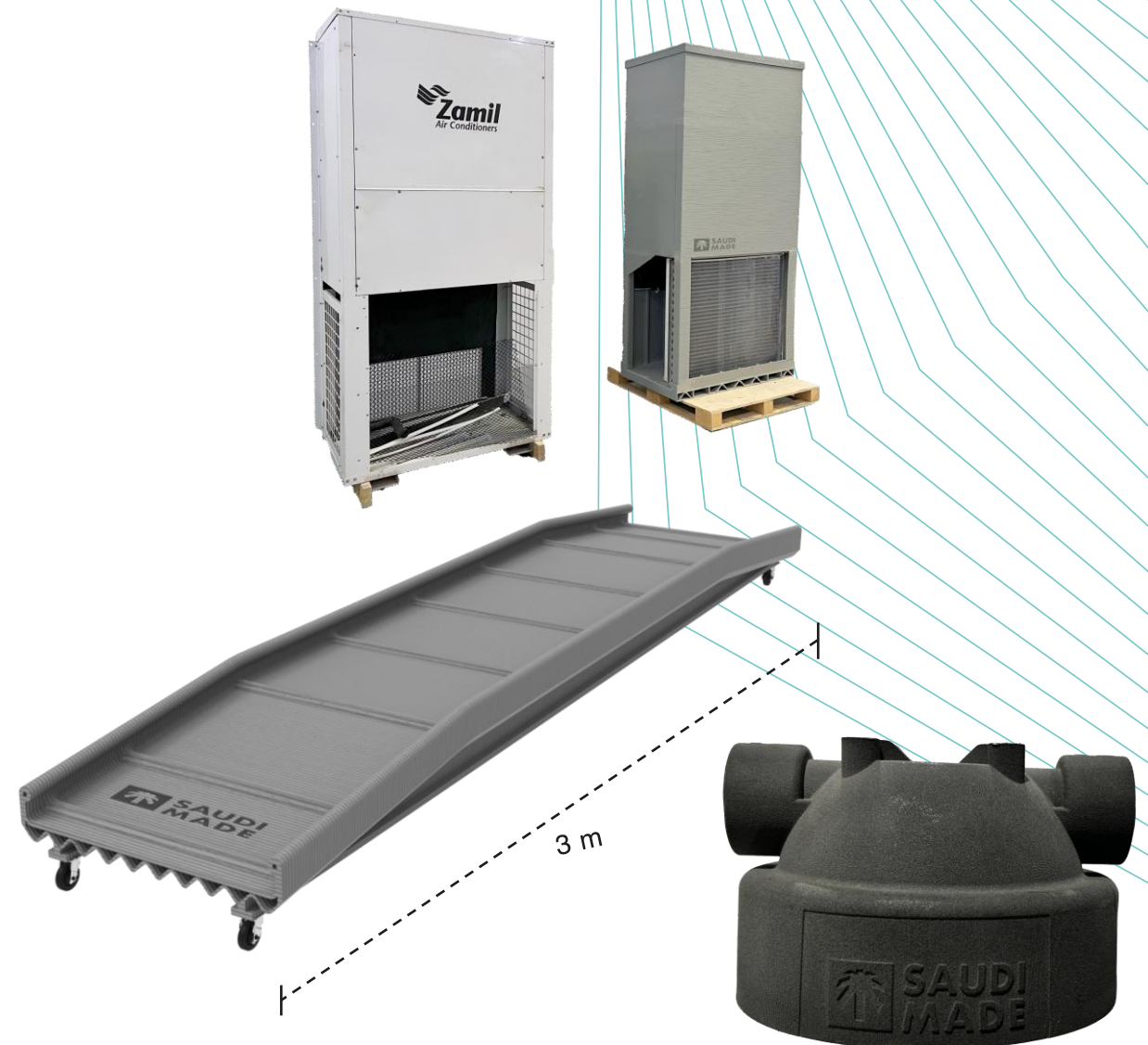


# Who Can Benefit?

1

## OEMs & Tier suppliers

3D Printing their needs of finished and semi-finished parts up to hundreds of thousands of parts yearly, in addition to supporting their design and manufacturing process with prototypes and tools.



# Who Can Benefit?

2

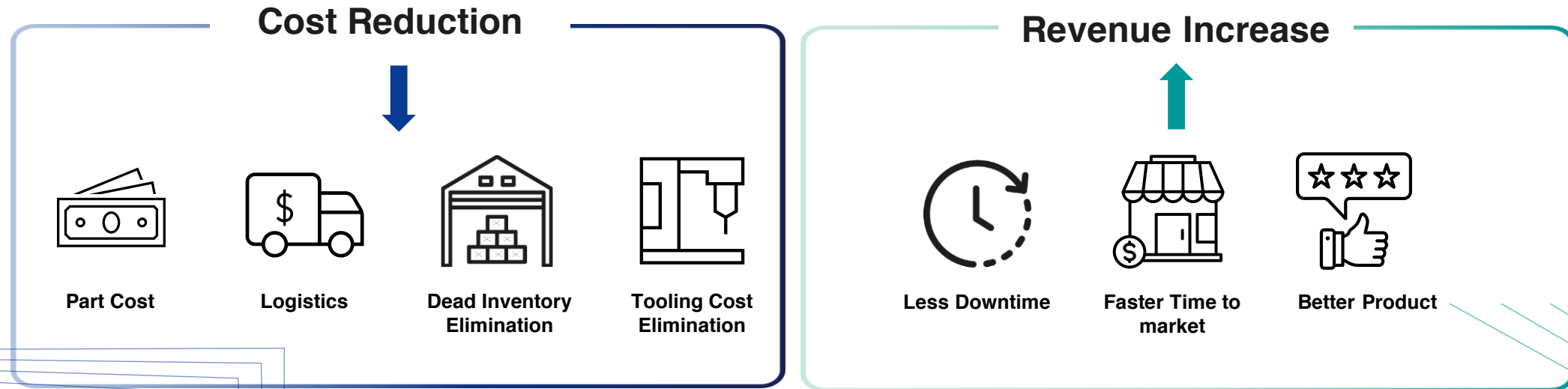
## Spare Parts Consumers

3D Printing spare parts for their machinery, equipment's, and production lines to replace damaged or malfunctioning parts.



# Understanding The Opportunity

Additive manufacturing offers OEMs and Tier suppliers huge manufacturing and design flexibility while keeping in the same time cost-effectiveness. While spare parts consumers gain operation stability, and resilient supply chains.

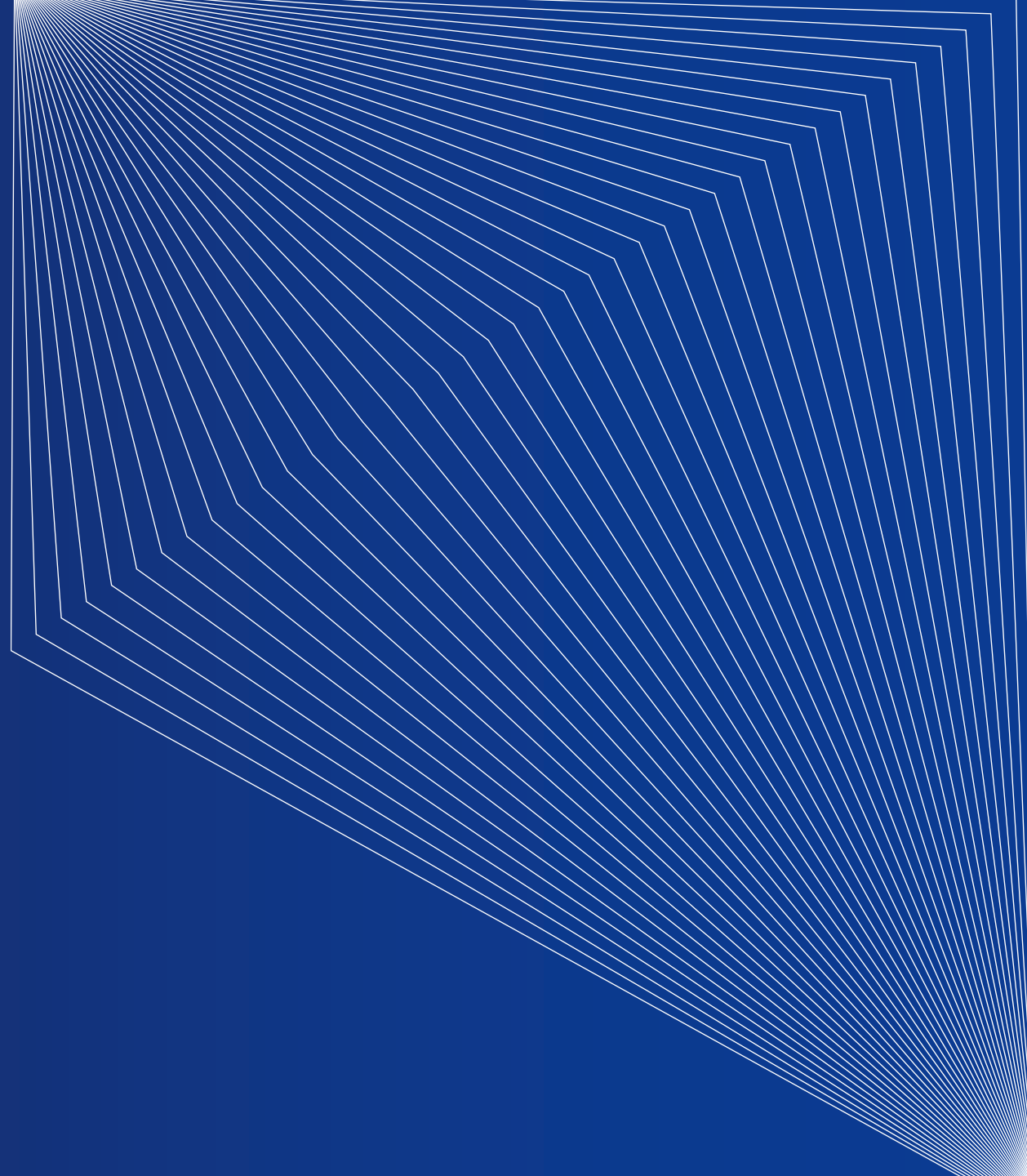


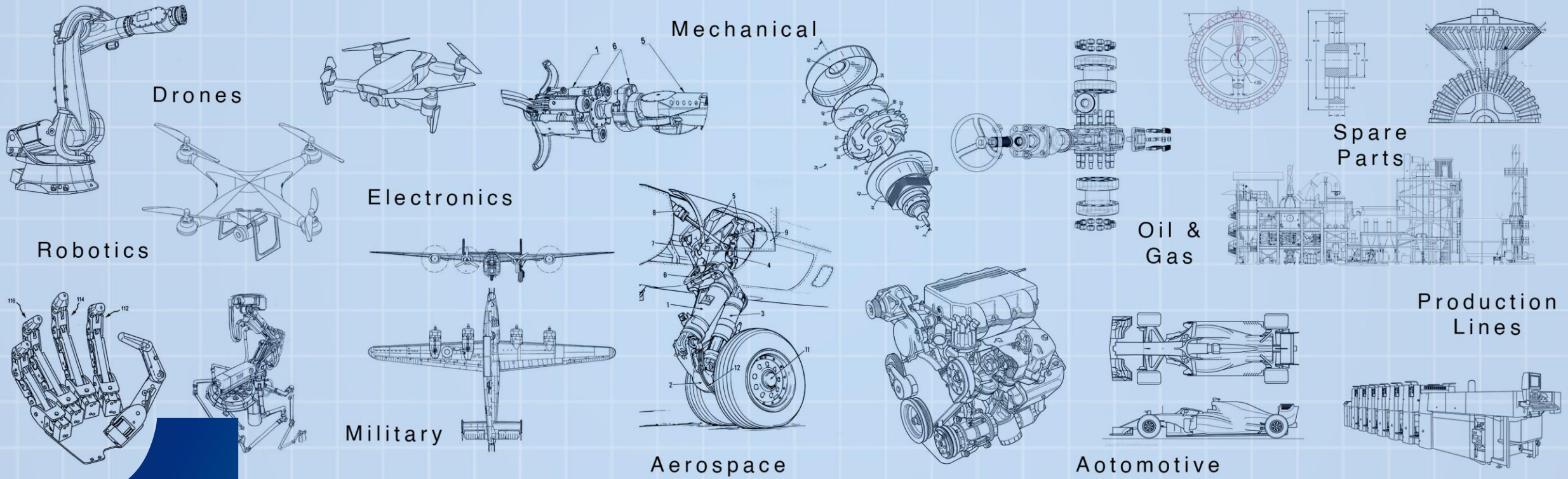
3D printing drives cost reduction and revenue increase through efficiency, customization, and innovative production methods, transforming industries.



# 03

**Why Us?**





## Why Namthaja?

## Mindset

We believe that 3D Printing is not just an alternative manufacturing method, limited to spare parts. It is a new form of manufacturing and supply chains that will change the way that we design and make things forever





## Why Namthaja?

# Sense of Innovation

We adopt innovation as our approach to harness the most value of 3D printing enabled by **our cumulative experience** and **unique culture**



## Why Namthaja?

## Unique Business Model

A hybrid approach to 3D Printing using best in class centralized R&D capabilities and distributed manufacturing network.





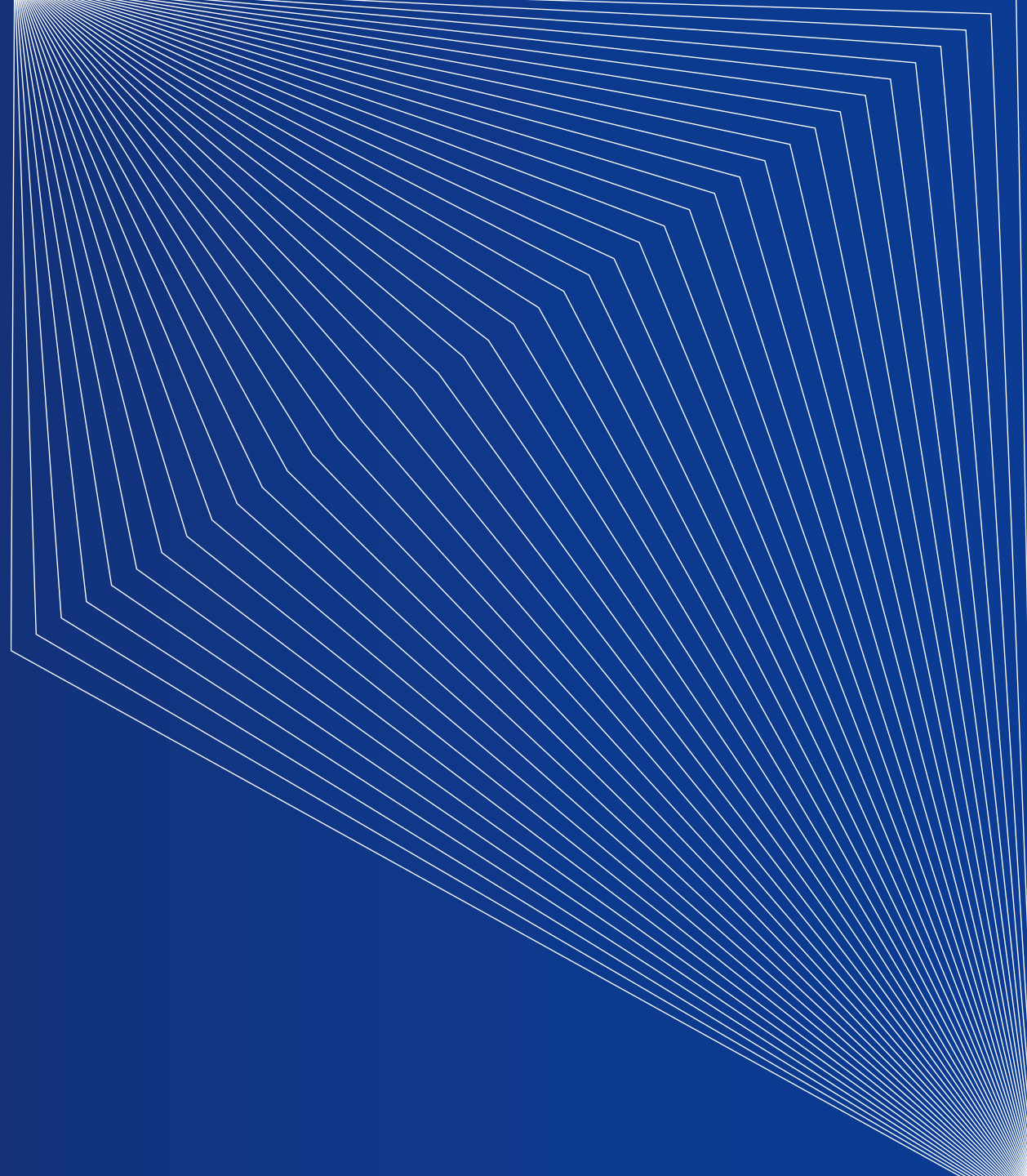
**Applications come first,  
Machines come last.**

## **Holistic Approach**

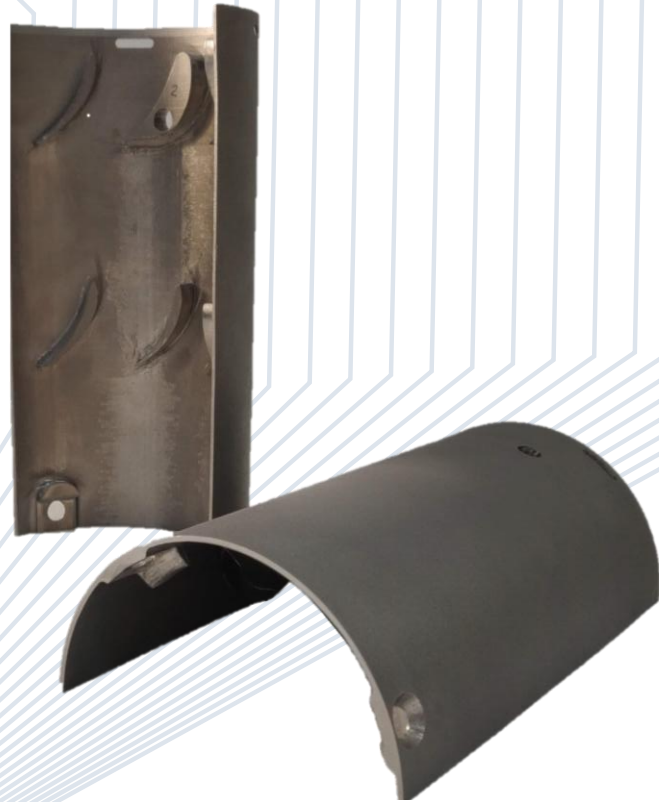
The Full Potential of 3D Printing Can Be Tapped Only If a **Holistic Approach** To 3D Printing is Considered, an approach that puts machines, knowledge, design, software, and the mindset in consideration.

# 04

## Application Examples



# ESP Stators



Client: Schlumberger **Schlumberger**

## Material

CoCr METAL ALLOY

## Description

Engineered with intricate channels for optimized fluid dynamics and durability

- ×4 Harder than the original material
- Reduced the number of manufacturing steps by 25%
- Cost & Time reduction
- Quantity to be produced yearly = 300

# Sand Screens



Client: Aramco

أرامكو السعودية  
saudi aramco



## Material

Polymer – ASA

## Description

To filter sand particles from water flow

- Patented
- Corrosion resistant
- Designed and engineered completely by Namthaja
- The first ever paid contract for 3D printed parts at Aramco
- Quantity to be produced = 5,000





# AC Cover



Client: Zamil Air Conditioners



## Material

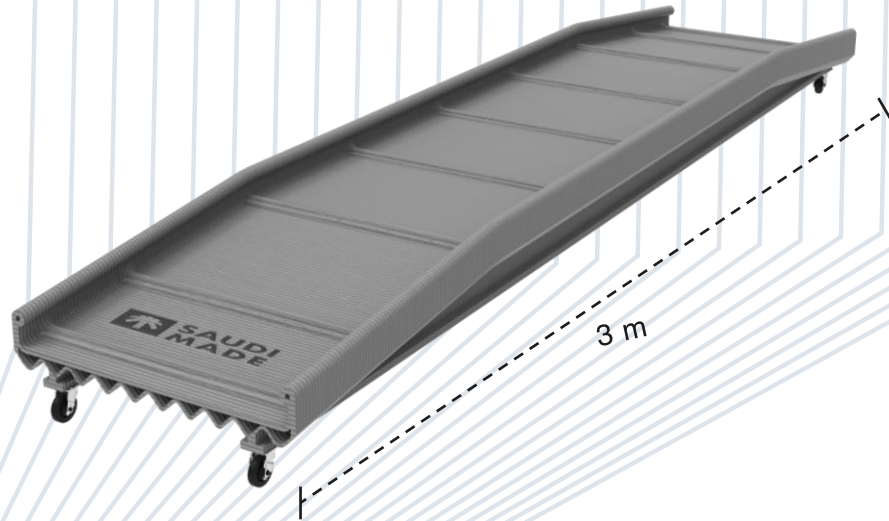
ASA Glass Fiber

## Description

AC cover frame with unique design and high quality

- Reduced the number of parts by 90%
- Reduced the number of manufacturing stages for the frame by 80%
- Reduced structure weight by 50%
- Reduced material waste by 100%
- Reduced product cost by 20%
- Quantity to be produced yearly = 3,000

# Marine Bridge



Client: Jana Marine Services  
شركة جنى للخدمات البحرية  
Jana Marine Services Co. LLC

## Material

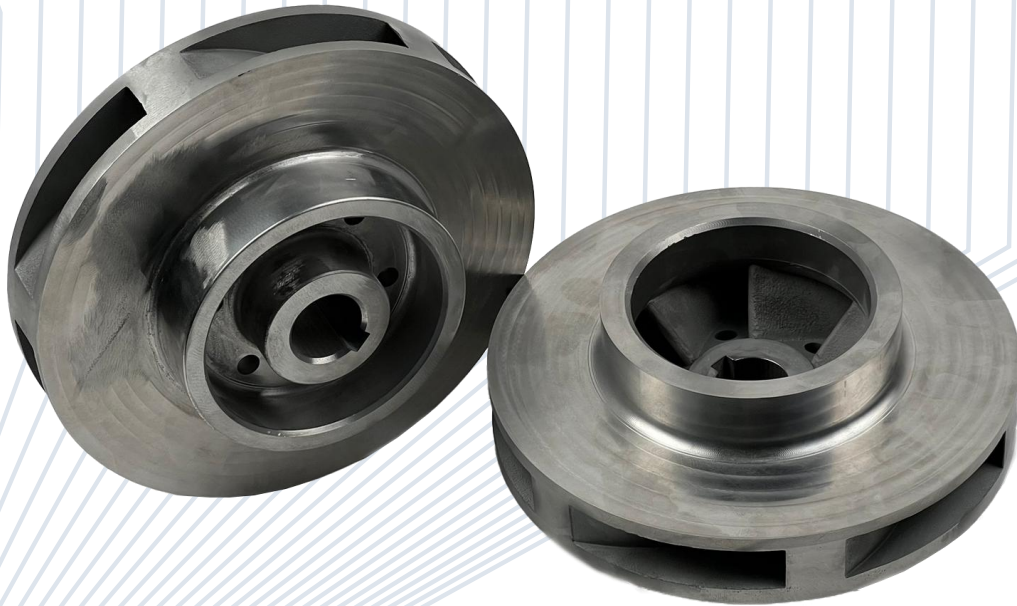
ASA Glass Fiber

## Description

Marine crossing bridge

- Capable of bearing 750 KG of load
- Corrosion Resistant
- Reduce 30% of total Weight
- Increased joint area performance
- Quantity to be produced yearly = 30

# Pump Impeller



## Material

Stainless Steel

## Description

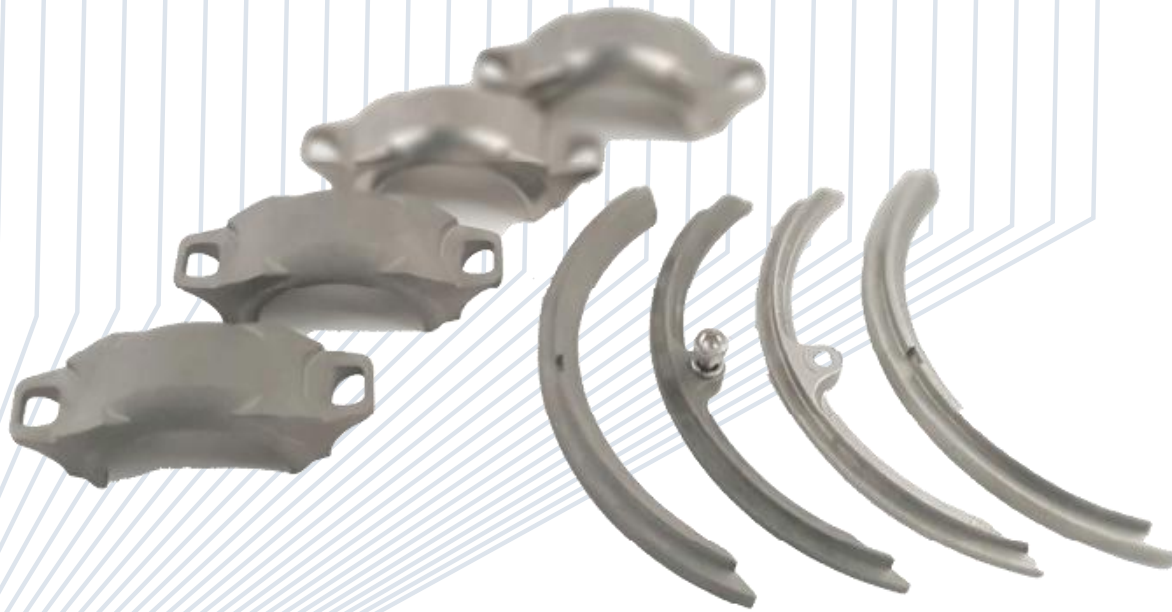
A closed impeller used in sea water pumps

- Replaced the original brass impeller to increase the lifetime and reliability
- Reduced lead time by 85%
- Reduced costs related to logistics, inventories, and down times by 50%
- Increase part efficiency and performance
- Quantity to be produced yearly = 3

Client: Bahri 



# Valves and Piping



Client: SWCC



المؤسسة العامة لتحلية المياه المالحة  
Saline Water Conversion Corporation (SWCC)

## Material

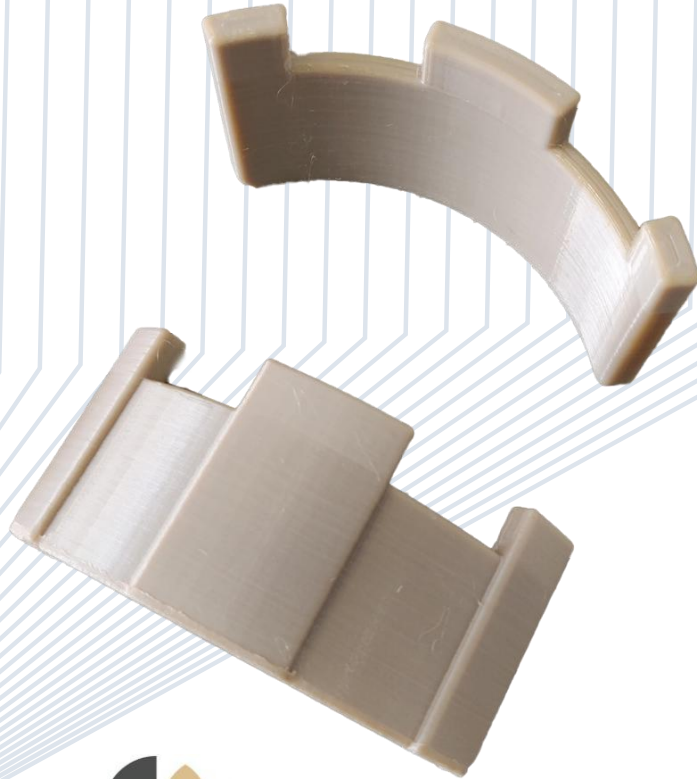
Metal (SS 316)

## Description

Piping couplings optimized for seamless integration and increased system longevity

- Very fast lead time, reduced from one month to three days
- Significantly increased operations reliability
- Significantly reduced down time
- Reduced costs related to logistics, inventories, and down times
- Quantity to be produced yearly = 1

# C Block



## Material

PEEK

## Description

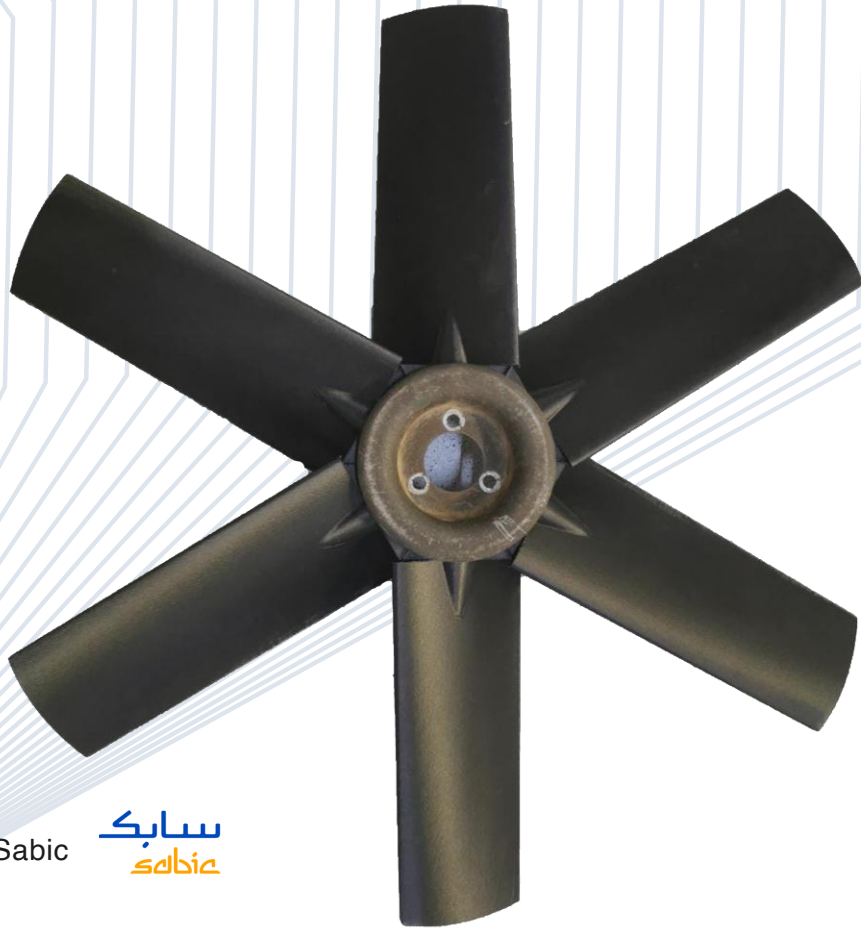
To hold copper windings in ESP motors

- Reduced time to market to less than one month
- Eliminated the need for tooling with the cost and lead time associated with it
- Enhanced the final product performance
- Quantity to be produced yearly = 2000

Client: Alkhorayef



# Motor Fan



Client: Sabic



## Material

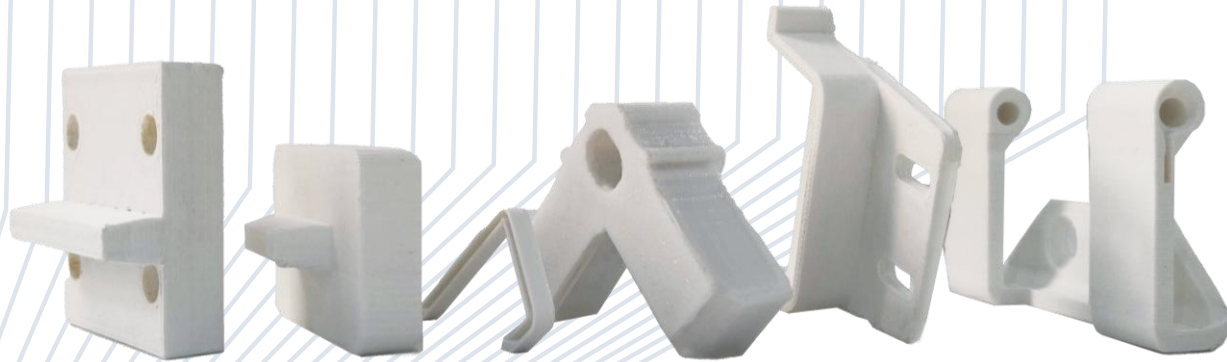
PA 12

## Description

Fan blades used to cool electrical motors

- Very fast lead time, reduced the lead time from 3 months to one day
- Significantly increased operations reliability
- Significantly reduced down time
- Reduced costs related to logistics, inventories, and down times
- Quantity to be produced yearly = 20

# Accessories for Sheet Metal Products



## Material

PETG, PA12, TPU

## Description

Various accessories used in sheet metal products

- Reduced time to market to less than one month
- The client gained a huge flexibility in designing and manufacturing customized accessories
- Eliminated the need for tooling with the cost and lead time associated with it
- Cost efficient compared to injection molding
- Quantity to be produced yearly = 15,000

Client: Raqtan





# Our Partners





3D printing is a new way of thinking  
that will change our way of making things forever.

# Contact Us



@Namthaja



**Phone**  
+966 59 172 7117



**Website**  
[www.namthaja.com](http://www.namthaja.com)



**Location**  
Dammam, Saudi Arabia



**Email**  
[cs@namthaja.com](mailto:cs@namthaja.com)