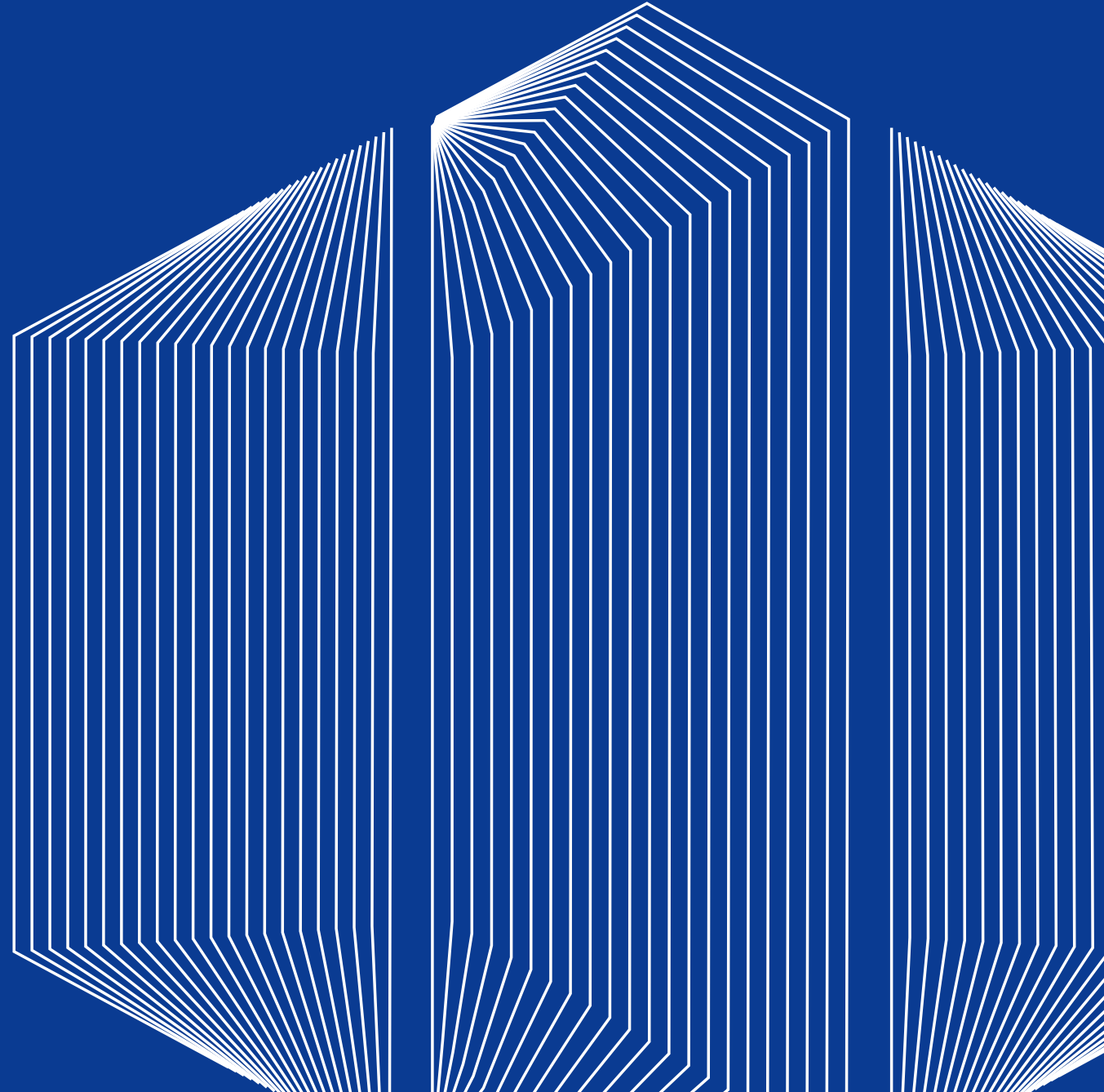


نمذجة
Namthaja



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 enable the adoption of 3D printing within the mainstream industries globally.

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



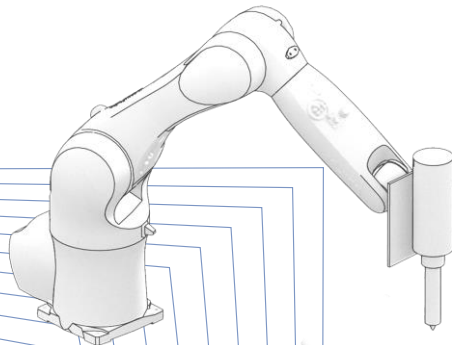
+40 Employees
50% Saudization



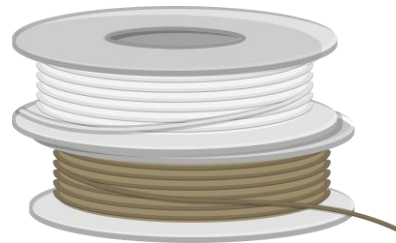
+60 3D Printers
with different sizes and technologies



largest metal 3D printer
in GCC up to 2 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**

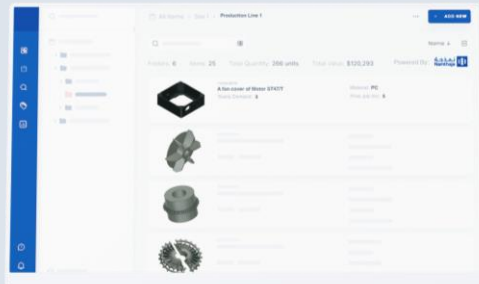
1

Application
Development &
Engineering



2

Digital Inventory
Platform



3

Central R&D and
Manufacturing Facility

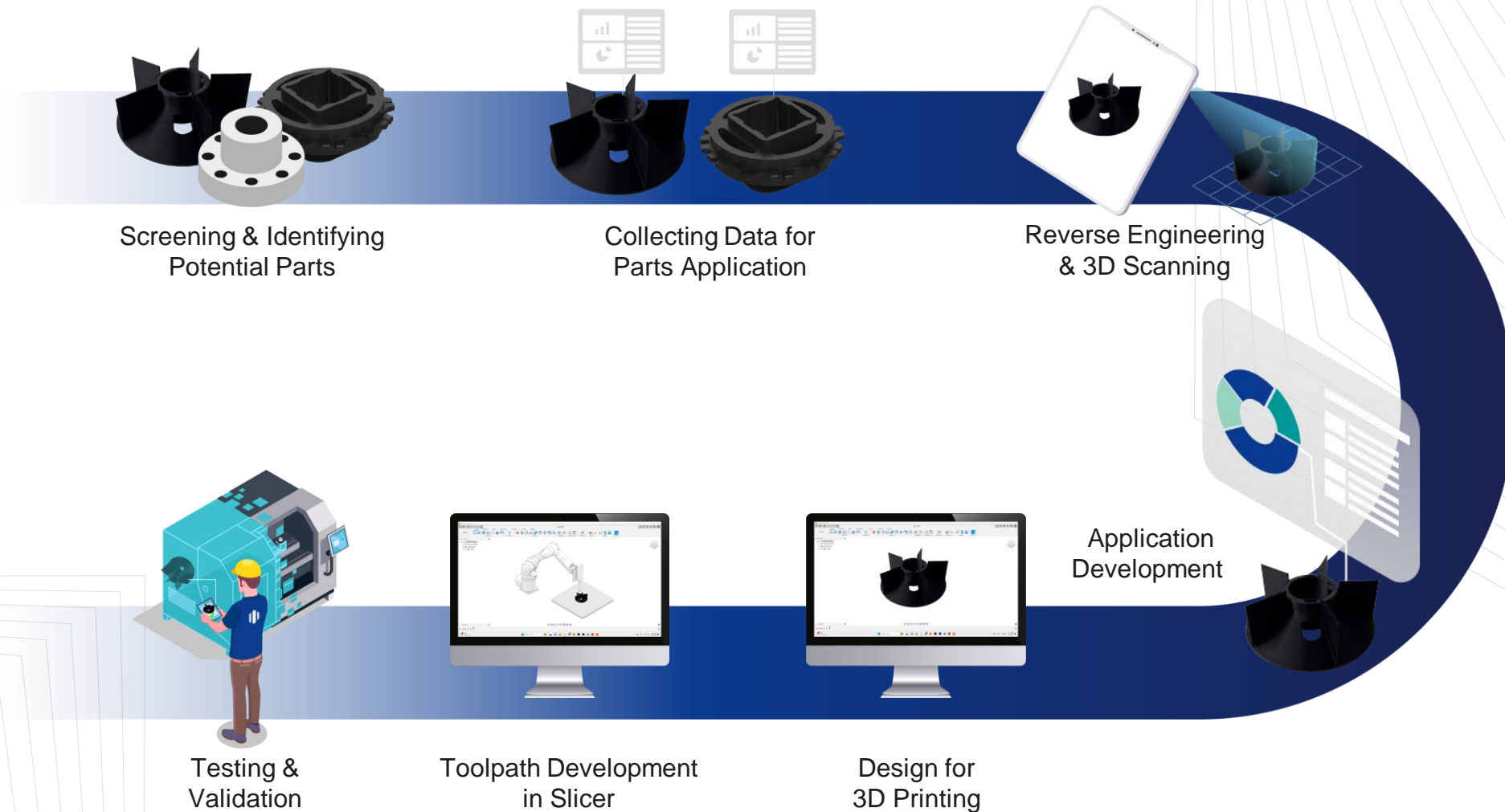


4

3D Printing
Hubs Network



1. Application Development and Engineering

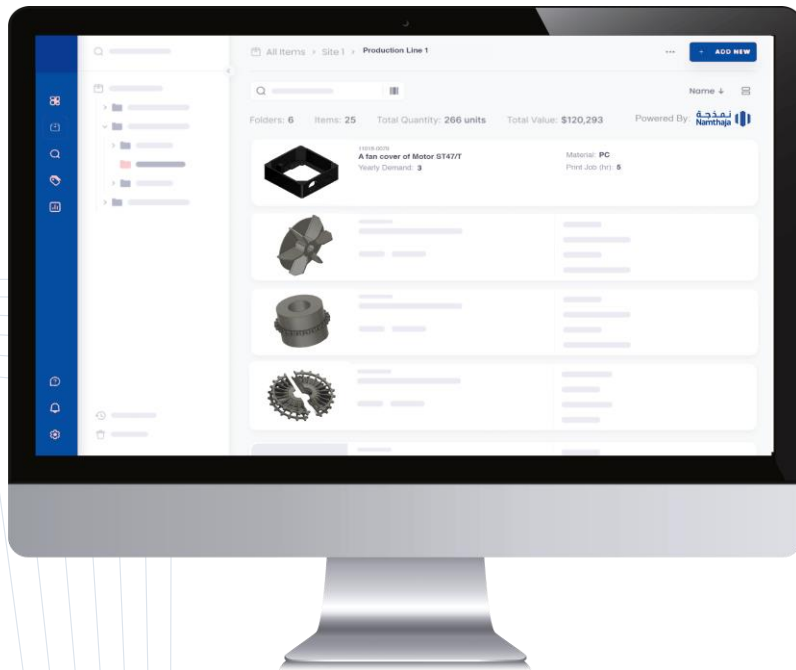


2. Digital Inventory Platform


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. Provide a digital order and PLM tool for clients to manage their design and manufacturing needs





Digital Inventory Features

- 

Supply Chain Optimization
- 

Insightful Reports
- 

Integrated Operations HUB
- 

Improved Forecasting
- 

Quick Access to Data

How We Successfully Shift to Digital Inventory?

- 

Introduce Feasible Alternative
- 

Design the Part to be Printable
- 

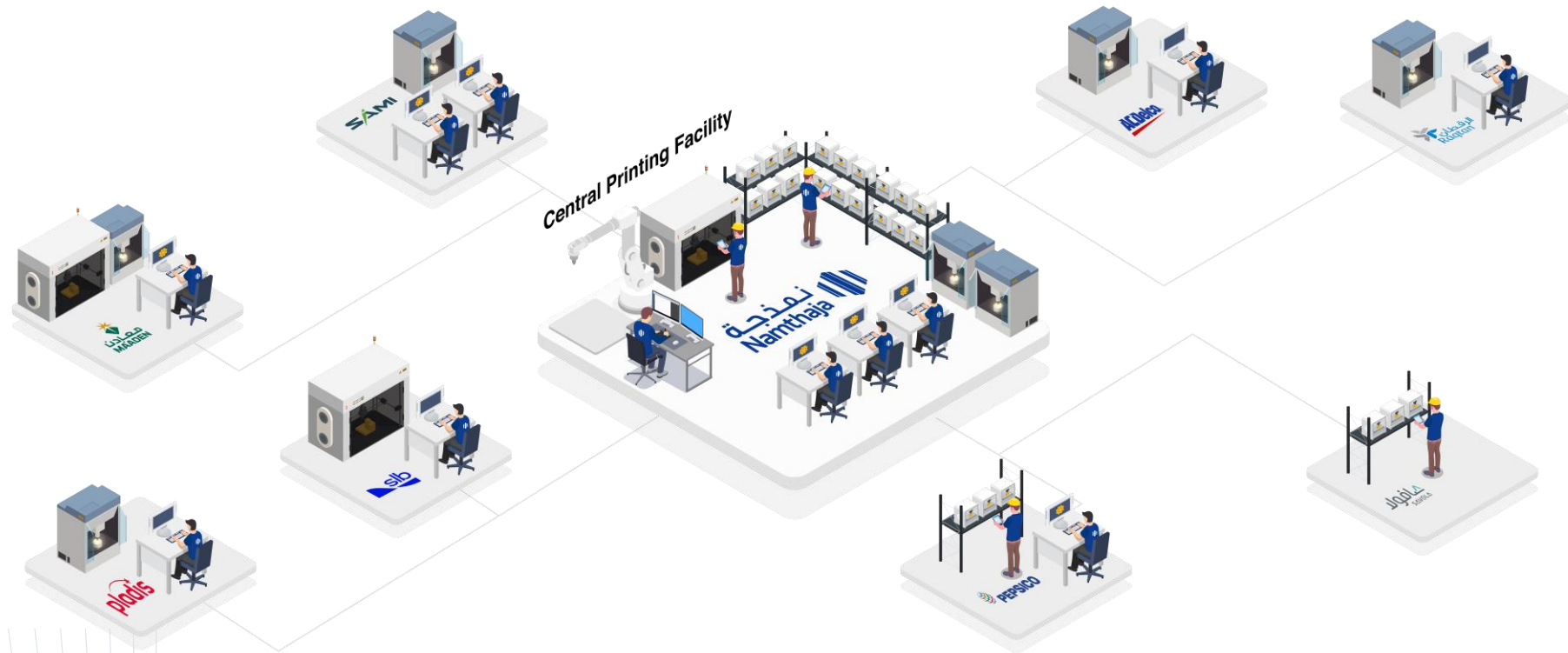
Insure Reliable & Accessible Supply Chain
- 

Provide a Digital Platform

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

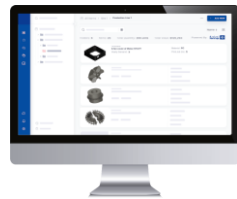
What is it?

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?



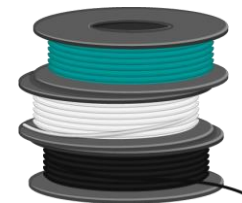
**Experienced
Engineering
Team**



**Digital
Inventory
Platform**



**HUB at
Your
Facility**



**Unlimited
Material Supply**



**Continuous
Engineering
Support**

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.



Produce parts at the hub or through Namthaja central facility.



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



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

02

Served Clients

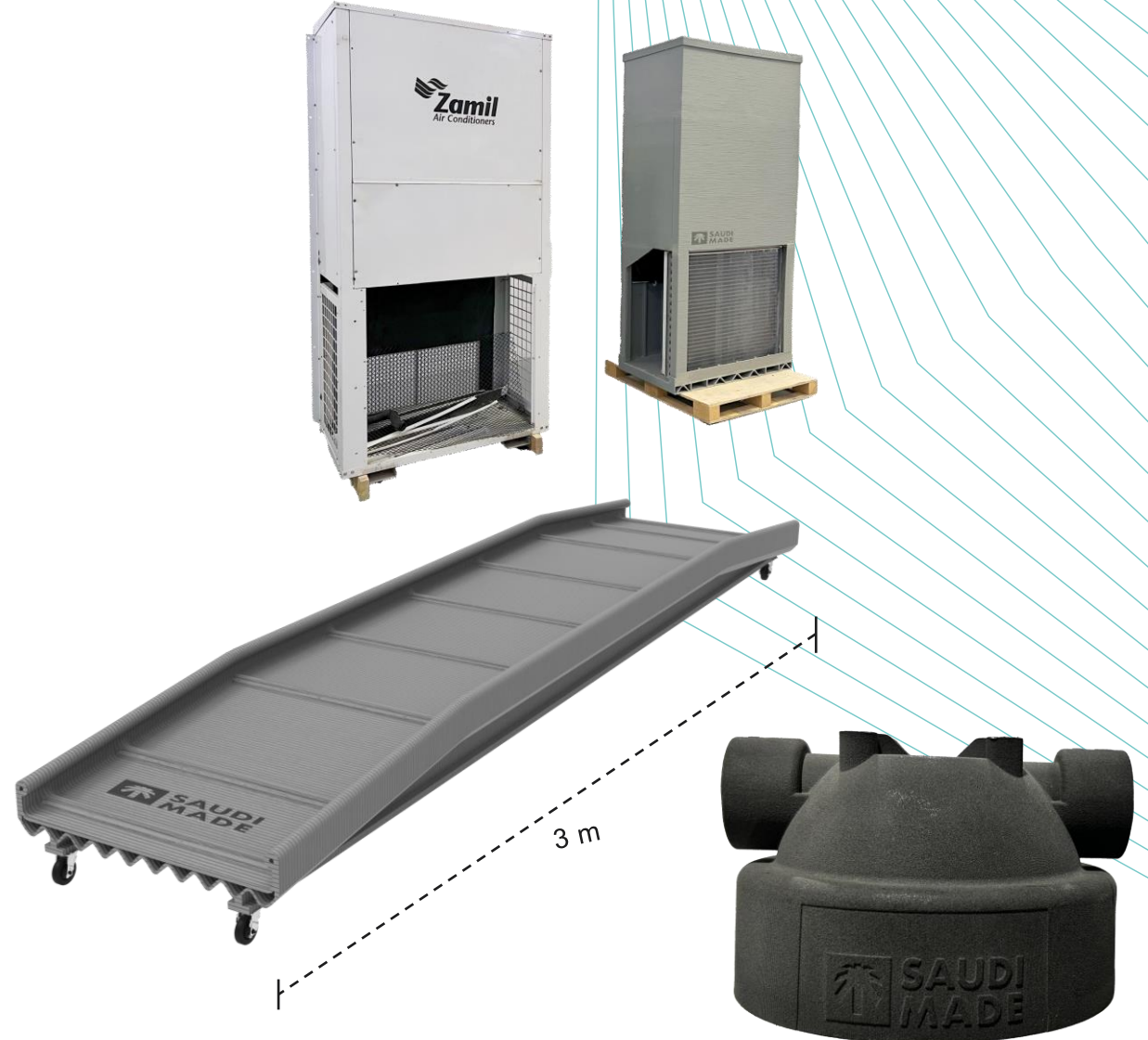


Who Can Benefit?

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

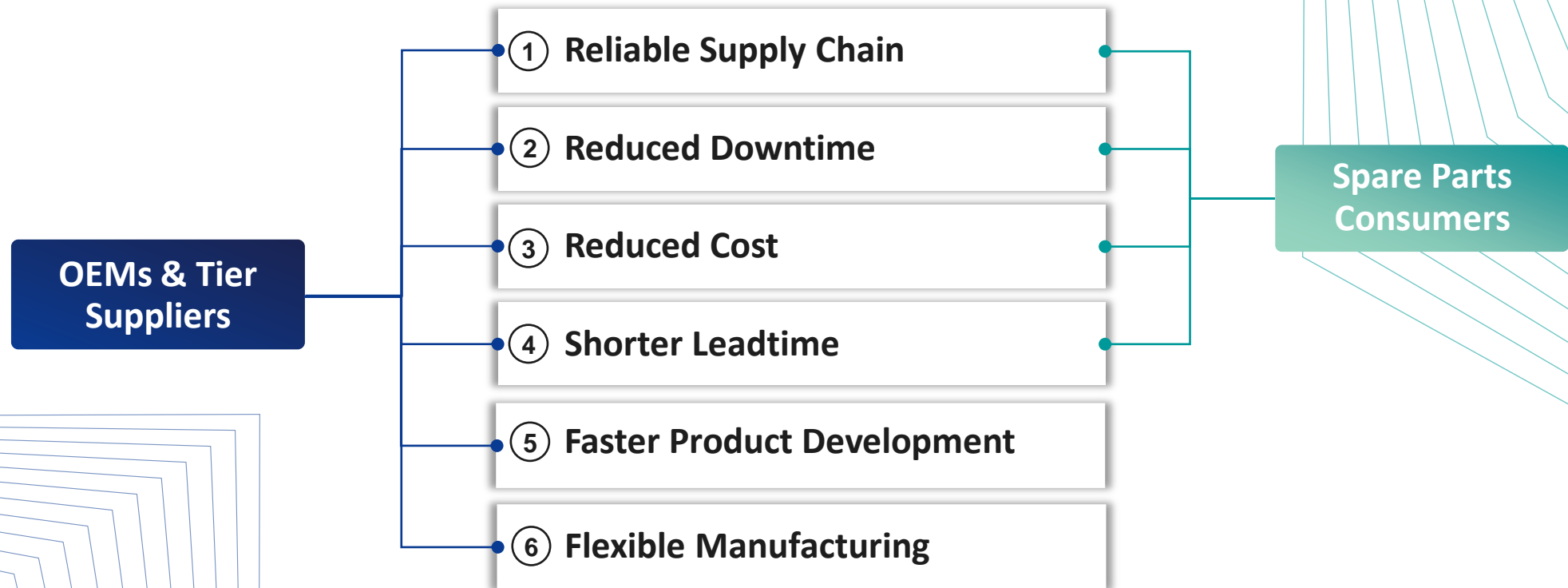
Spare Parts Consumers

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

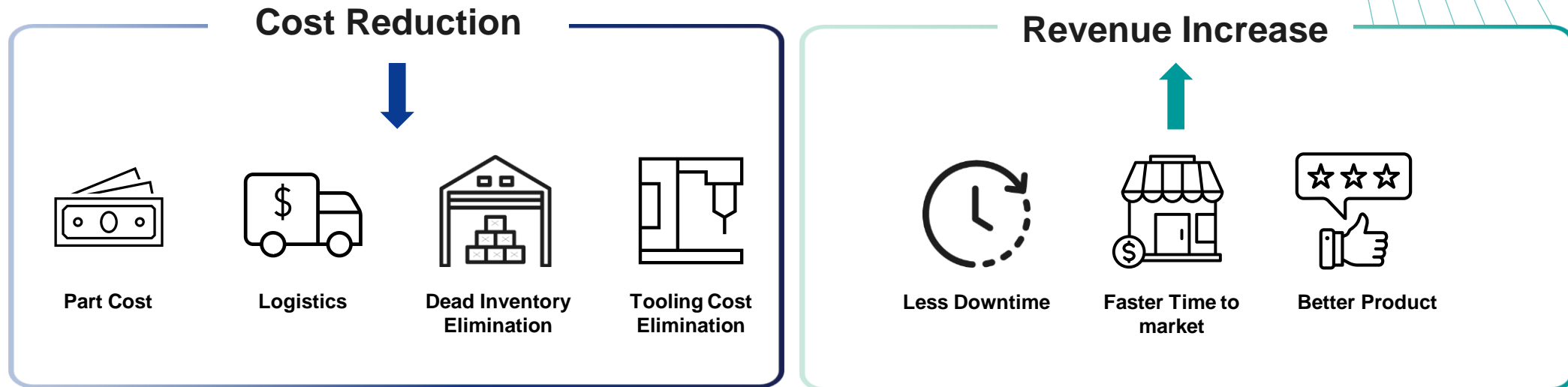


The Opportunity in Additive Manufacturing

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.



Understanding The Opportunity



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

03

Why Us?

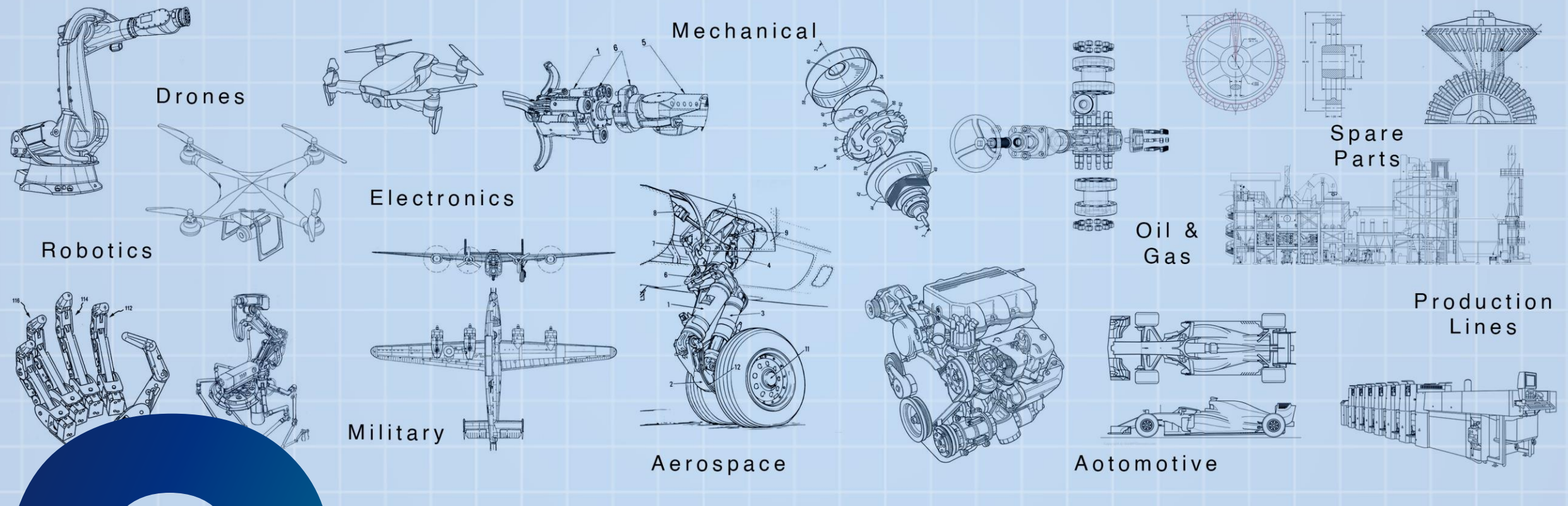




Namthaja's Added Value

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**



Namthaja's Added Value

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



Namthaja's Added Value

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

Hub's Success Stories



Our 3D Printing Hubs



Digital Inventory

+74
Parts



Avg Cost
Saving per part

42%



Avg Lead time
Reduction per part

97%



Annual Savings

+360,000SR

Our 3D Printing Hubs



Digital Inventory

+70
Parts



Avg Cost
Saving per part

72%



Avg Lead time
Reduction per part

97%



Annual Savings

+320,000SR

Our 3D Printing Hubs



Digital Inventory

+60
Parts



Avg Cost
Saving per part

72%



Avg Lead time
Reduction per part

99%



Annual Savings

+60,000SR

Our 3D Printing Hubs

pladis

GODIVA  **ÜLKER**



Digital Inventory

+20
Parts



Avg Cost
Saving per part

92%



Avg Lead time
Reduction per part

97%



Annual Savings

+200,000SR

Our 3D Printing Hubs



Digital Inventory

+24
Parts



Avg Cost
Saving per part

74%



Avg Lead time
Reduction per part

91%



Annual Savings

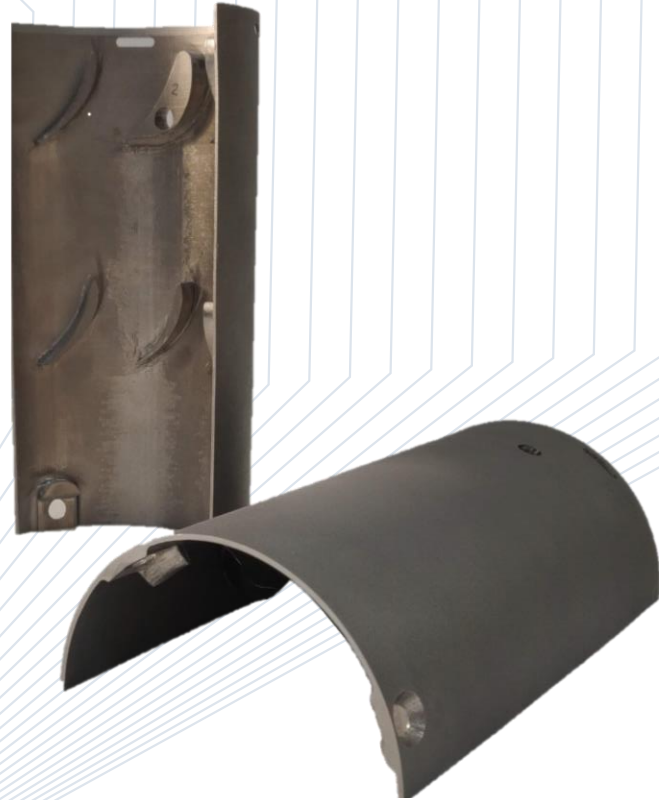
+170,000SR

05

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



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

Client: Aramco

أرامكو السعودية
saudi aramco



AC Cover



Client: Zamil Air Conditioners



Material

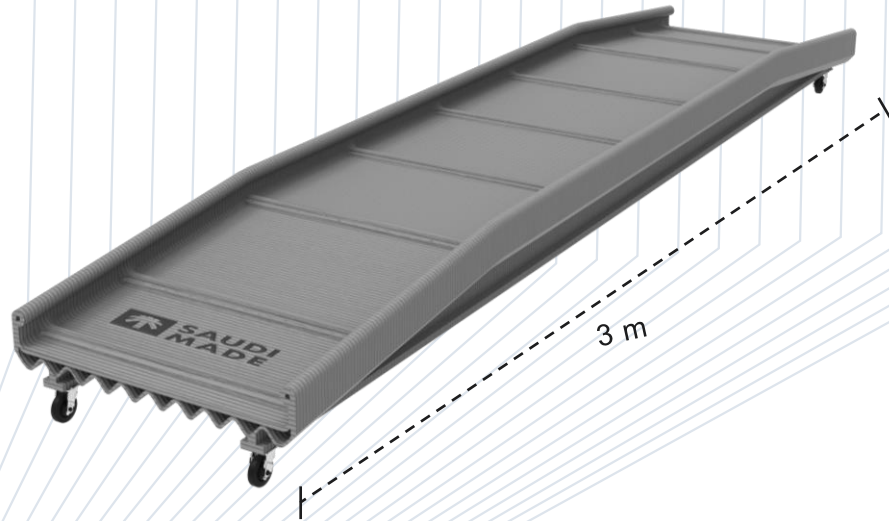
ASA Glass Fiber

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 the final product by 20%
- Quantity to be produced yearly = 3,000

Marine Bridge



Material ASA Glass Fiber

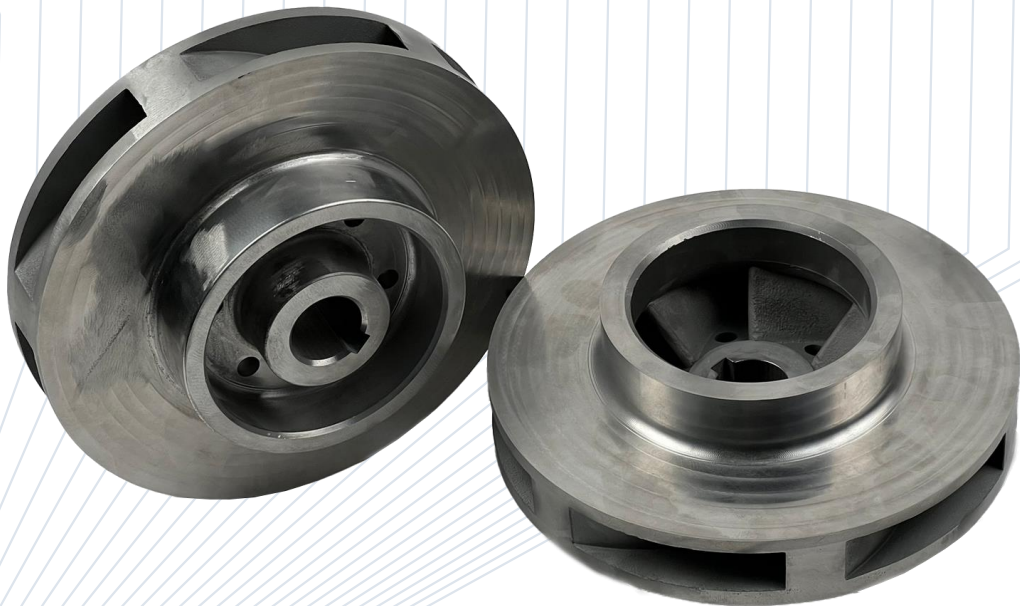
Description Marine crossing bridge

- Holds up to 750 KG
- Corrosion Resistant
- Reduce 17% of total Weight
- Increased joint area performance
- Quantity to be produced yearly = 30

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



Pump Impeller



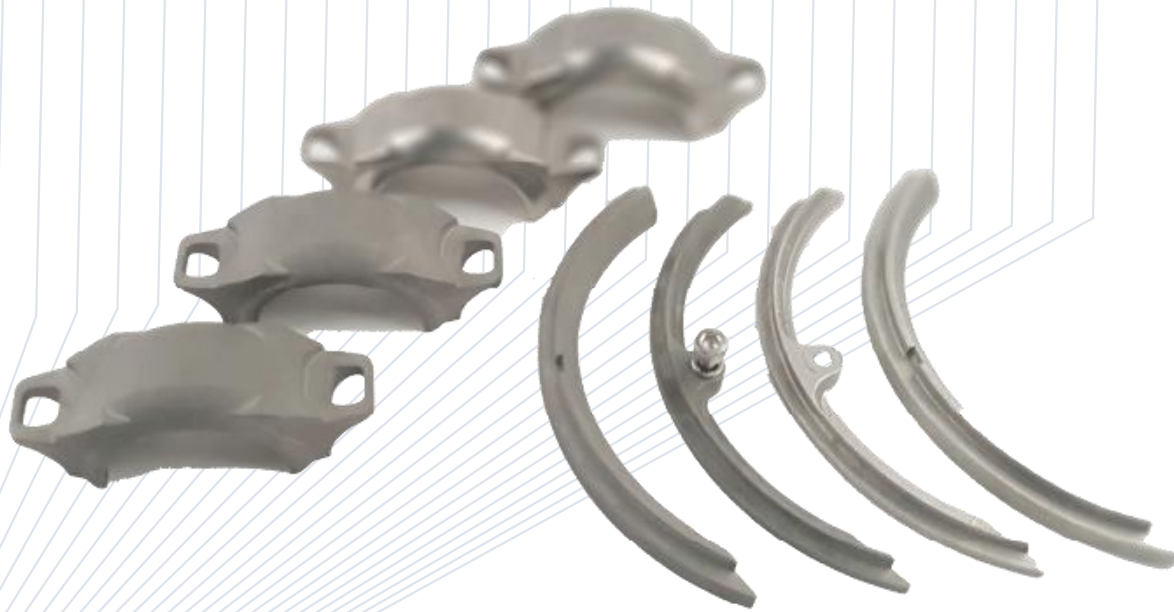
Material Stainless Steel

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  Bahri
البحري

Valves and Piping



Material

Metal (SS 316)

Description

Piping couplings optimized for seamless integration and increased system longevity

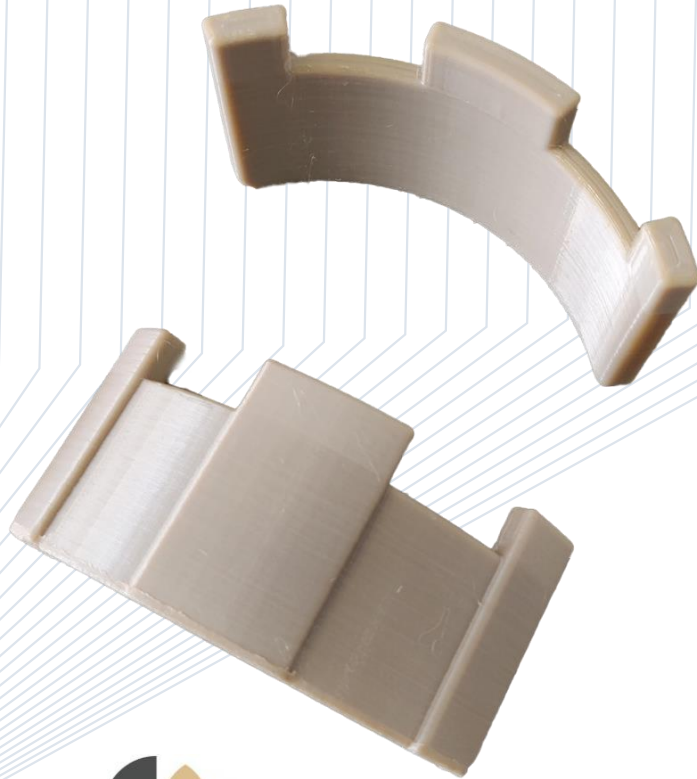
- Very fast lead time, reduced from one month to three days
- Significantly increased operations reliability
- Significantly reduced down time
- Reduced costs related to logistics, inventories, and down times
- Quantity to be produced yearly = 1

Client: SWCC



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

C Block



Client: Alkhorayef



Material

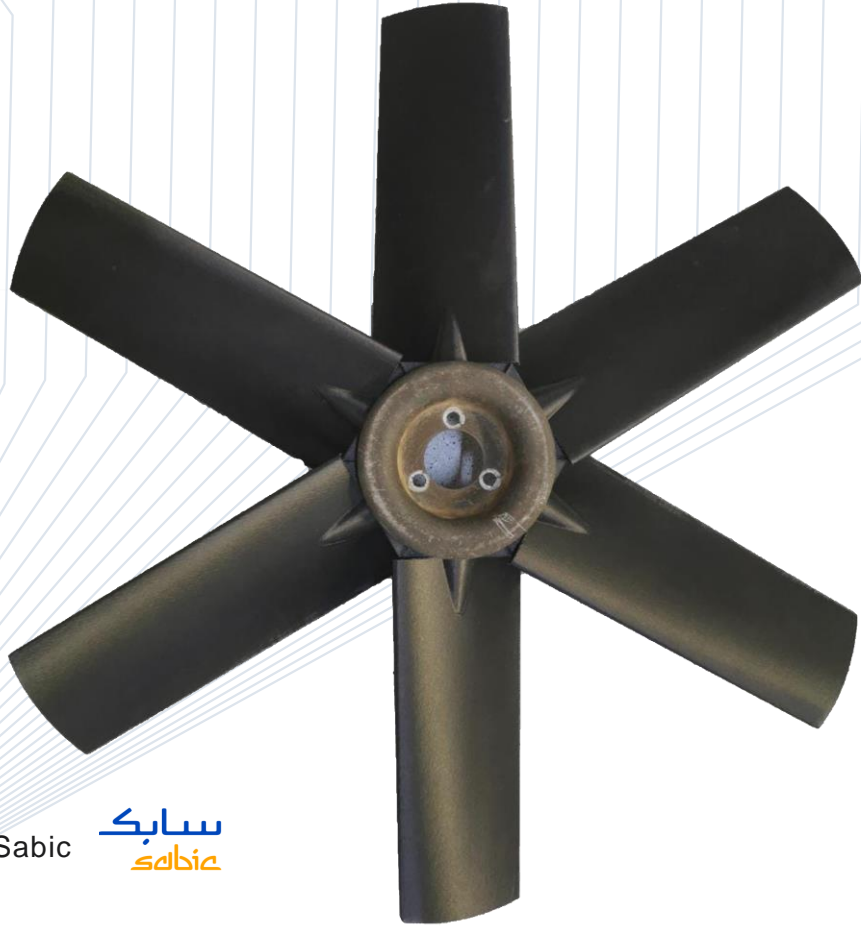
PEEK

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

Motor Fan



Client: Sabic



Material

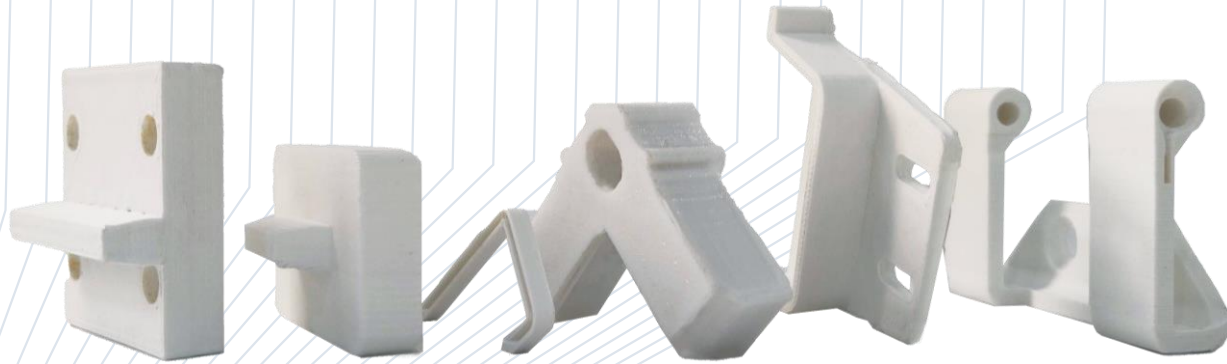
PA 12

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



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

Schlumberger

أرامكو السعودية
saudi aramco

Zamil
Air Conditioners

شركة جنى للخدمات البحرية
Jana Marine Services Co. LLC

سابك
عندك

Bahri
البحري



مدينة الملك عبدالعزيز
للعلم والتكنولوجيا KACST

الرقطان
Raqtan

SAMI

صدارة
Sadara



PEPSICO

ACDelco

pladis

معادن
MAADEN

P&G

الخريف للبتروكيمياويات
Alkhorayef

NCMS
الشركة الوطنية للأنظمة الميكانيكية
National Company for Mechanical Systems



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

Contact Us



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