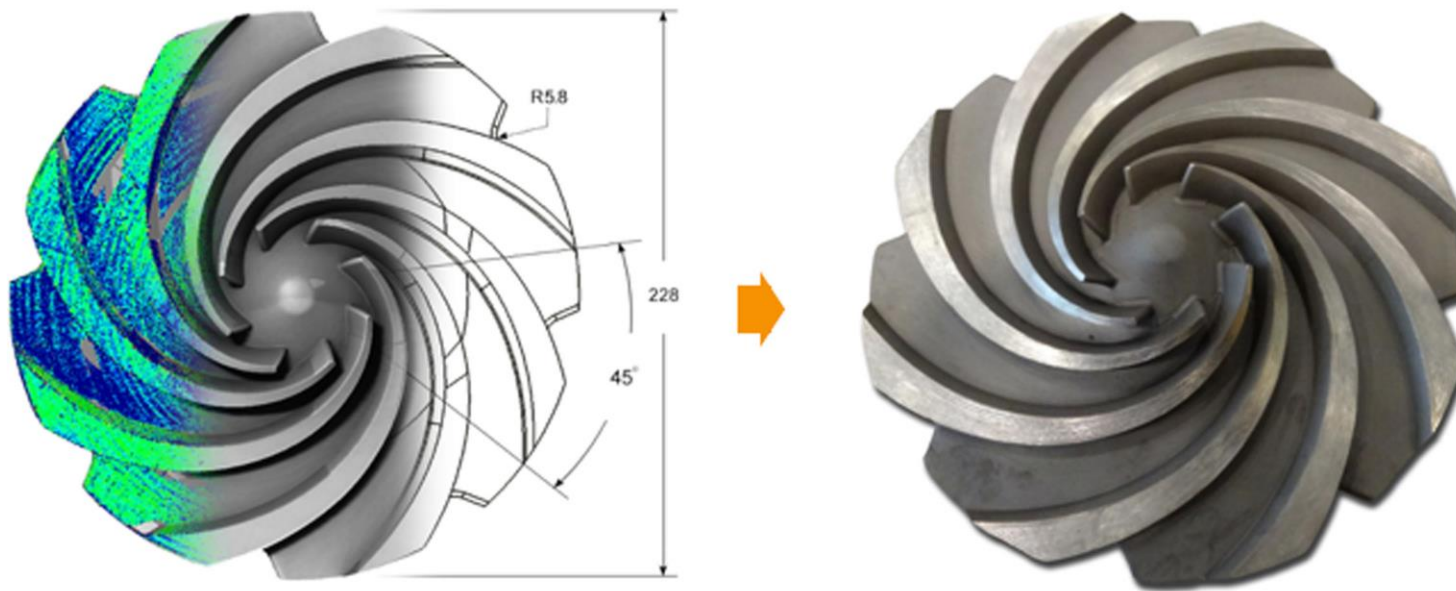




DARTEC COMPANY PROFILE



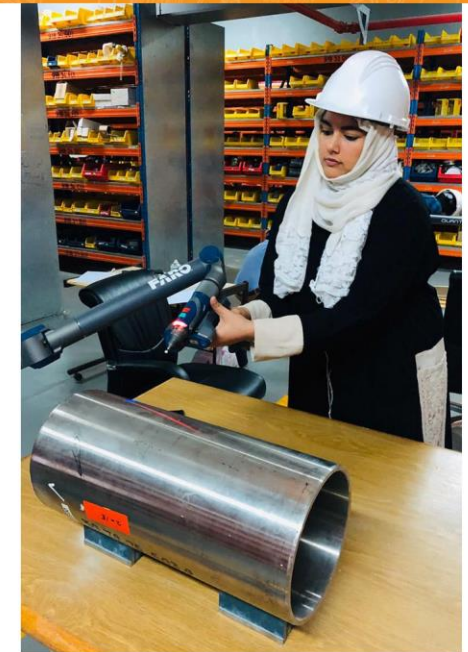
“ Enabling Local Manufacturing Through Engineering Package Development ”

What is Localization

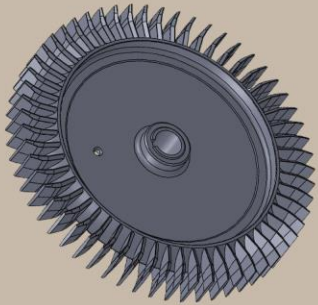
When it comes to spare part localization, *dartec* is concerned with five different spectrums to overcome in order to enable localization:

1. 2D engineering drawings availability.
2. Technical know-how.
3. Availability of precision manufacturing.
4. Metallurgy analysis reports & post manufacturing processes.
5. Procuring obsolescence spare parts.

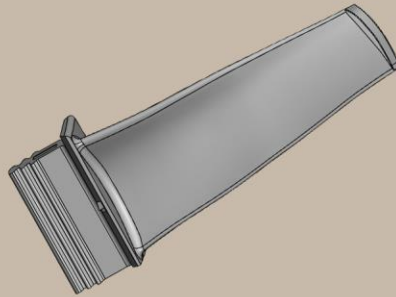
dartec addresses each of the above challenges and facilitates localization using reverse engineering techniques.



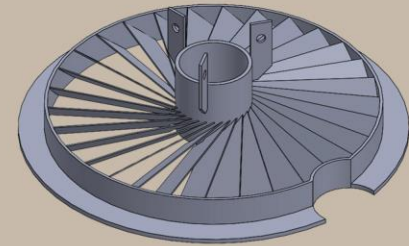
| GEARS



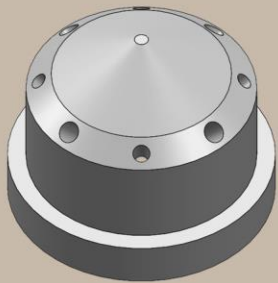
| BLADES



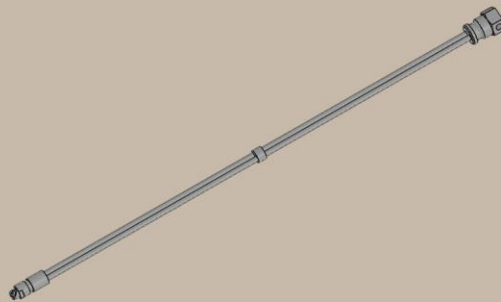
| SWIRLERS



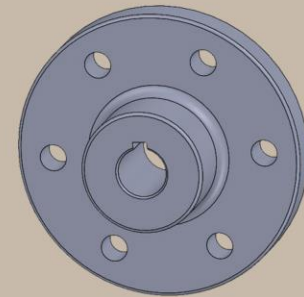
| NOZZLES



| IGNITERS



| COUPLINGS



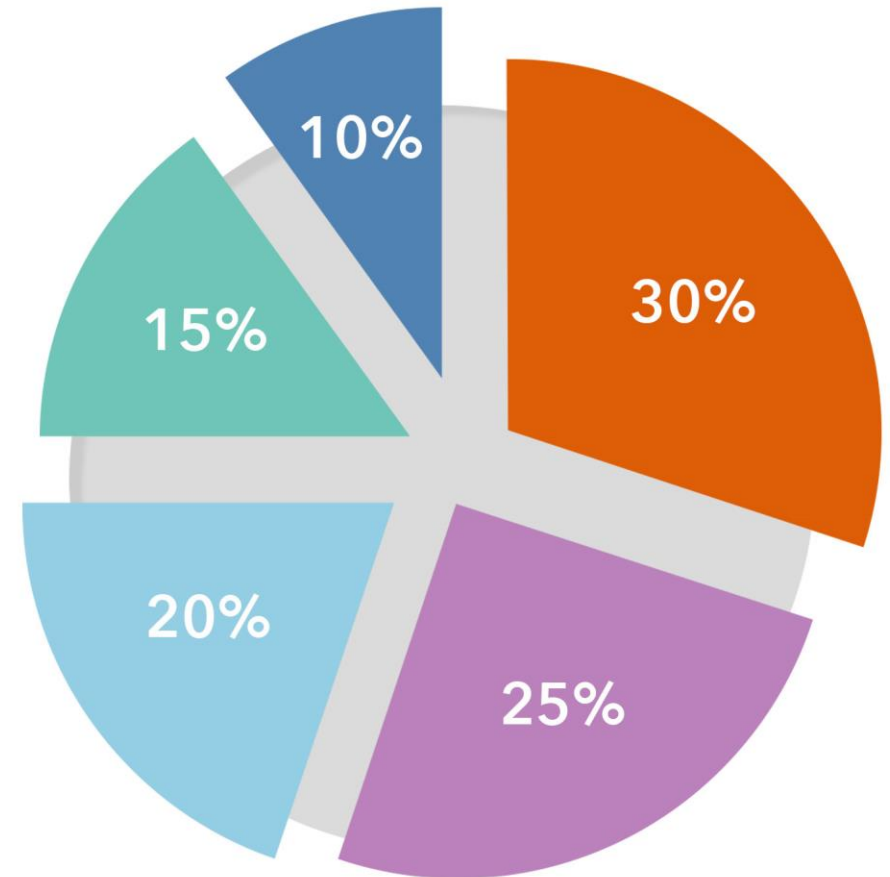
dartec Contribution to The 2030 Vision

- | Defense industry Localization from 2% in 2016 to 50% by 2030
- | Oil & Gas sector Localization from 40% to 75% by 2030
- | PIF spending from SR600 billion to SR7 trillion by 2030
- | Foreign direct investment of GDP from 3.8% to 5.7% by 2030
- | Non-oil exports shares from 16% to 50% of annual GDP
- | Mining GDP contribution to SR97 billion and create 90,000 jobs for Saudis
- | Private sector's contribution of GDP from 40% to 65%



Challenges *dartec* could solve

- | Lack of **engineering drawings**.
(required to manufacture complicated parts)
- | Technical know-how about **operating conditions**.
(Reflected as tolerances of engineering drawings)
- | Limited local precision **manufacturing capabilities**.
(beyond machining)
- | Identification of **part metallurgy** & **material grade**.
(ensure part longevity)
- | Challenges **procuring** obsolescence spare parts.
(source, lead-time, premium price, delays)



● Engineering Drawings

● Know-How

● Manufacturing Capabilities

● Metallurgy Reports

● Procuring Obsolescence

JOB ORDER

Reverse Engineering Deliverables

1. 2D Engineering Drawings
2. 3D Printing (Metal & Plastic)
3. Spare Parts Manufacturing
4. Geometric Inspection Reports
5. 3D CAD Modeling
6. Localization Assessment Reports

ASSESSMENT

Reverse Engineering Criteria

- | | |
|---------|----------------------------|
| TIME | 1. Lead-Time |
| | 2. Obsolescence |
| | 3. Not offered by OEMs |
| COST | 4. Consumable |
| | 5. Parts OEMs |
| | 6. Out-of-warranty |
| ABILITY | 7. Precision Manufacturing |
| | 8. Digital Manufacturing |

PROPOSAL

Technical and Commercial proposal

Reflecting Operational Conditions and Inspection Criteria.

DELIVERY

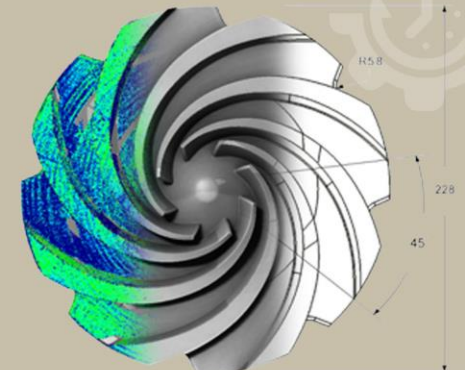
1. Manufactured parts
2. 2D Engineering drawings
3. 3D CAD Files
4. Inspection report
5. Metallurgy analysis report
6. Localization assessment report

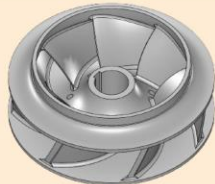
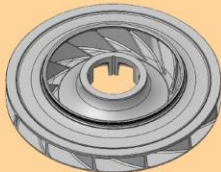
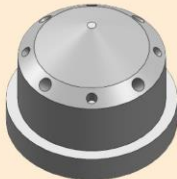
INSPECTION

Geometrical and Metallurgical against 2D Drawing.



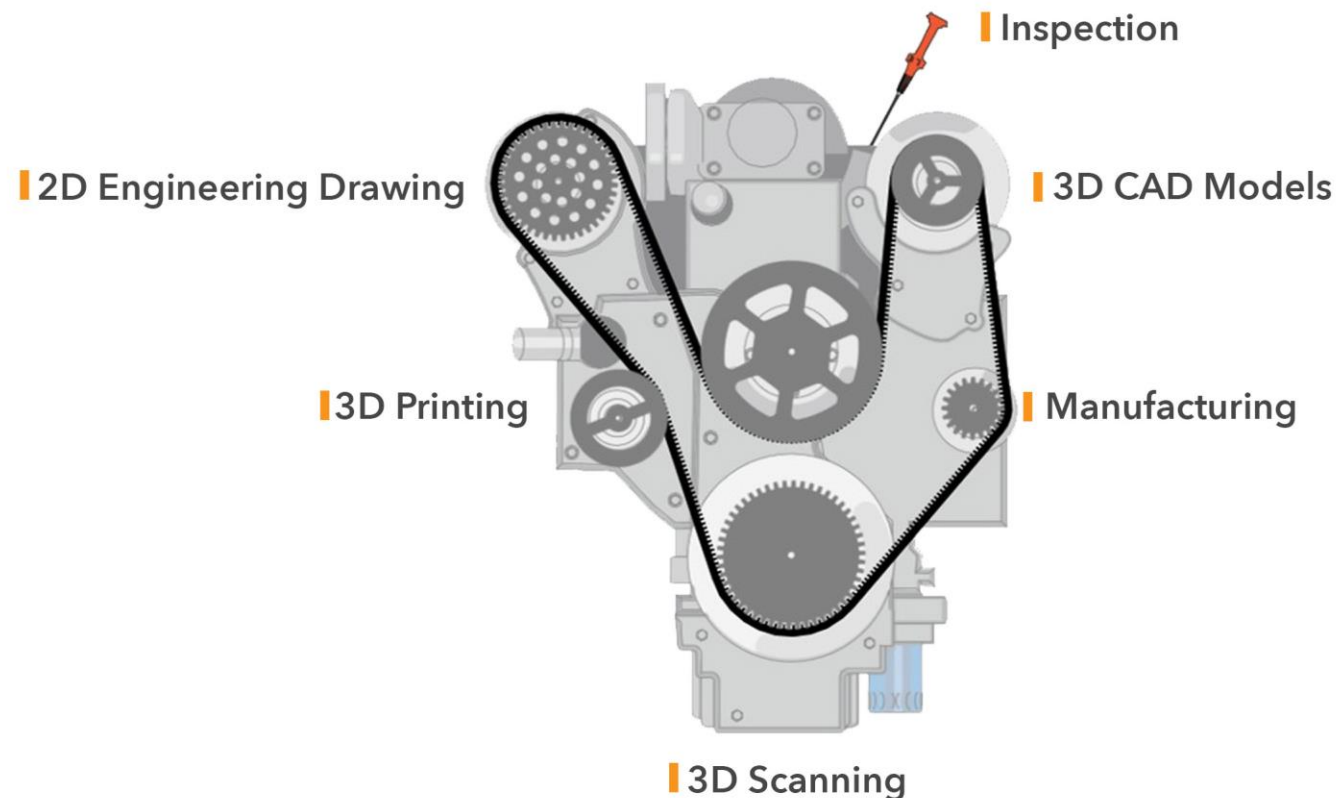
EXECUTION PROCESS



DESCRIPTION	PART	SITUATION	SAVINGS
Boiler Igniter Automizer		<ul style="list-style-type: none"> Long Lead-Time = 180 Days Price/Unit = SR4,500/Part 	<ul style="list-style-type: none"> Reduce Lead-Time by 145-Days Reduce Price by 16.55%
Water Pump Impeller		<ul style="list-style-type: none"> Long Lead-Time = 150 Days Price/Unit = SR47,500/Part 	<ul style="list-style-type: none"> Reduce Lead-Time by 60-Days Reduce Price by 36.84%
Air Compressor Impeller		<ul style="list-style-type: none"> Long Lead-Time = 90-Days Price/Unit = SR43,800/Part 	<ul style="list-style-type: none"> Reduce Lead-Time by 50-Days Reduce Price by 16.55%
Boiler Burner Tip Nozzle		<ul style="list-style-type: none"> Long Lead-Time = 90-Days Price/Unit = SR2,500/Part 	<ul style="list-style-type: none"> Reduce Lead-Time by 75-Days Reduce Price by 13.46%

| Established in 2012, *dartec* is specialized in Localizing the Manufacturing of mechanical spare parts & Inspection by developing the required engineering package (2D Engineering Drawings, 3D CAD Models, and material analysis) to manage the manufacturing processes required to produce the parts.

| *dartec* utilizes Reverse Engineering to enable the digital transformation and the use of Industry 4.0 technologies.



These are some of the scanner samples that *dartec* uses to create digital 3D models for local manufacturing.

ARTEC SPACE SPIDER



0.05mm

ARTEC EVA



0.10mm

GOM ATOS CORE



5 Megapixel



12 Megapixel

GOM ATOS



0.058mm

FARO QUANTUM S



0.08mm

LDI SPACE ARM



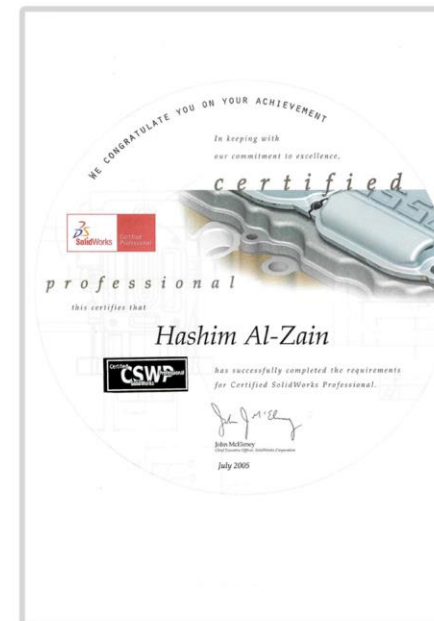
0.01 mm \ 0.025mm

LDI DS

ISO9001:2015 Quality Assurance

dartec is ISO certified in Reverse Engineering Services to Support Industrial Localization for:

- | Spare Part Manufacturing
- | Analysis
- | Metallurgy
- | Inspection
- | Sourcing of Raw Material



PARTNERS



الشركة السعودية للكهرباء
Saudi Electricity Company

LASERDESIGN™

CYBEROPTICS

Technology Leadership. Global Solutions.



WAMAR INTERNATIONAL, LLC



A Fluor Company

SCHAFFLER®
WERKZEUGBAU

جامعة الملك عبد الله
للعلوم والتقنية
King Abdullah University of
Science and Technology



نwc
المياه الوطنية



سابك
عنداك

التصنيع TASNEE

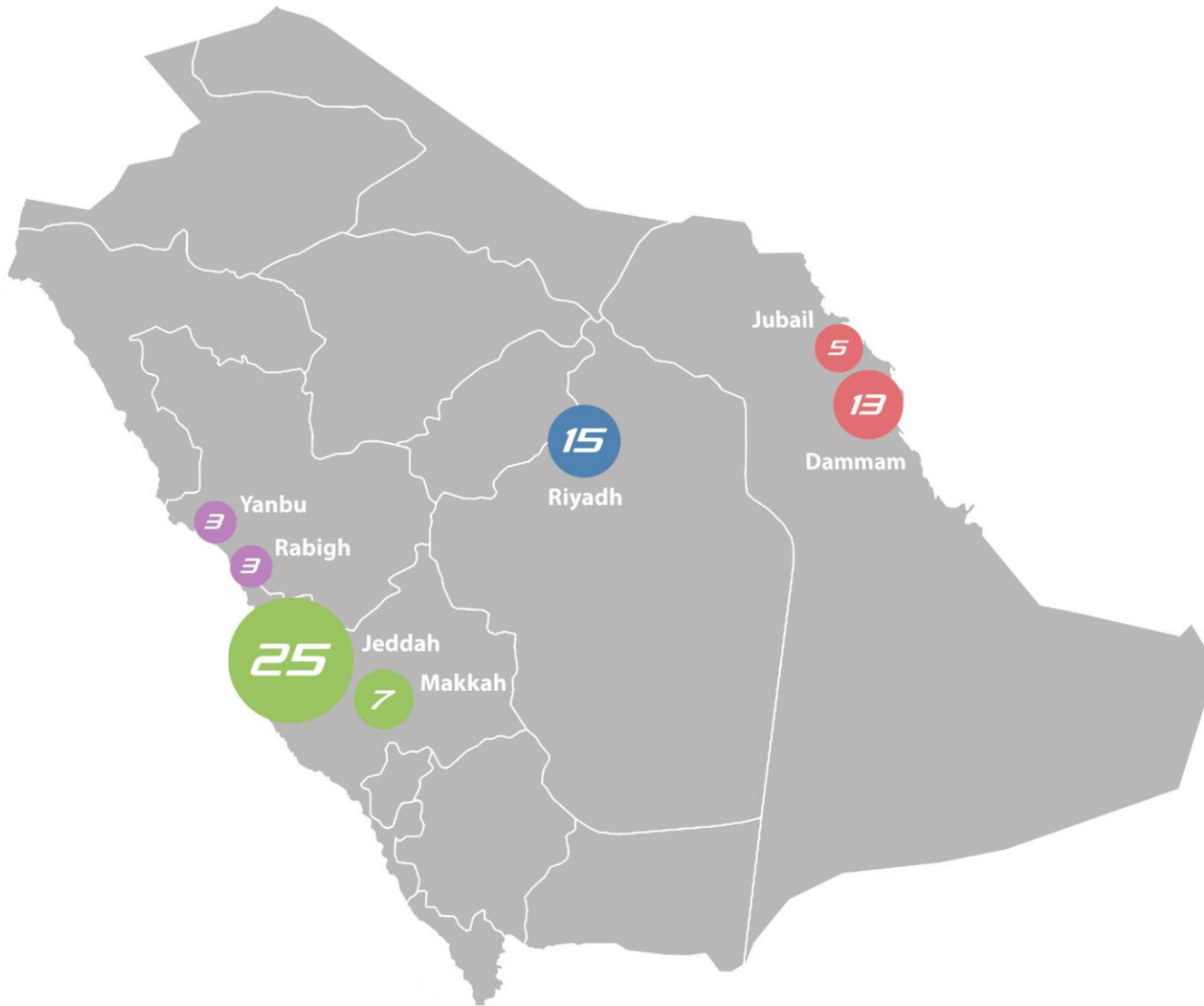
ATLA



أرامكو السعودية
saudi aramco



CUSTOMERS



Riyadh Province

Riyadh | 15 Manufacturers

Makkah Province

Jeddah | 25 Manufacturers

Makkah | 7 Manufacturers

Eastern Province

Dammam | 13 Manufacturers

Jubail | 5 Manufacturers

Madinah Province

Rabigh | 5 Manufacturers

Yanbu | 3 Manufacturers

" Since *dartec* Engineering's inception, we have committed to creating exceptional value for our customers by finding creative ways to solve their spare part and equipment challenges using reverse engineering techniques & world class equipment, while striving for excellence and never compromising quality. It is vital that we treat every customer with the highest dedication and responsibility and build strong relationships with clients to earn their loyalty."

| Eng. Ayman AlNouri
CEO

| Dr. Hashim AlZain
CTO



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