Roein
Sazeh

ROEIN SAZEH HOOSHMAND

Smart Additive Solutions

Opens up a world of possibilities for design engineers and product developers to create components that were once deemed impossible.

www.rsh-additive.com

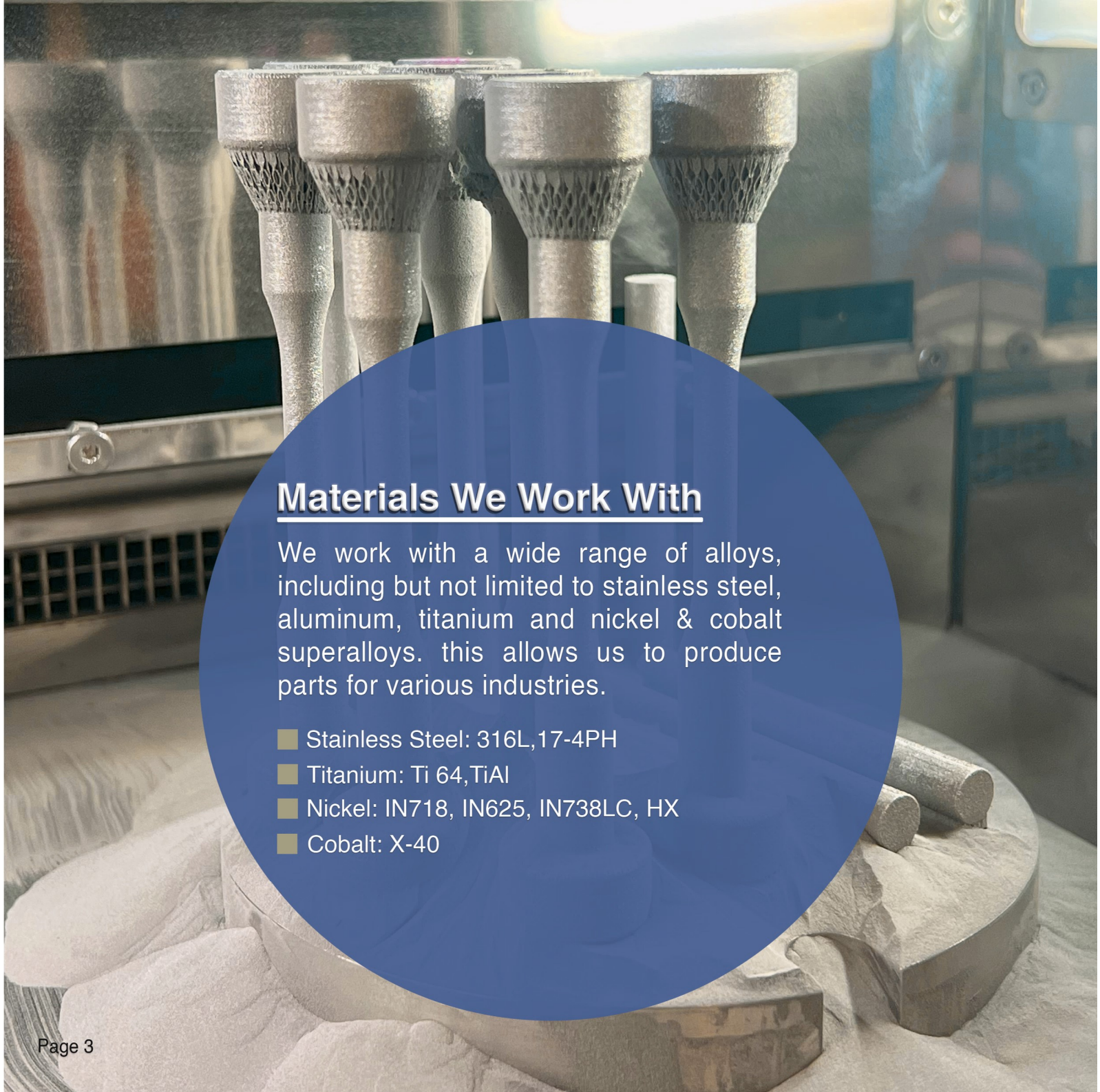
ABOUT COMPANY

Roein Sazeh Hooshmand was found with the aim of designing and manufacturing of 3D printed metal components in field of power generation, oil & gas, aerospace and other industries by employing combination of the latest fourth generation of manufacturing technology (AM) and advanced materials. At Roein Sazeh, we recognize the importance of using advanced technologies and unlocking new possibilities in best design, performance and functionality.

Why Additive Manufacturing?

Additive manufacturing technology allows us to create complex geometries and intricate designs that other conventional manufacturing methods cannot achieve.

- Customization Options
- Rapid Prototyping and Production
- Sustainability and Efficiency
- Unmatched Quality
- Shortening Lead Times
- Providing Cost-effective Solutions
- Exceptional Precision,Strength and Enhanced Durability



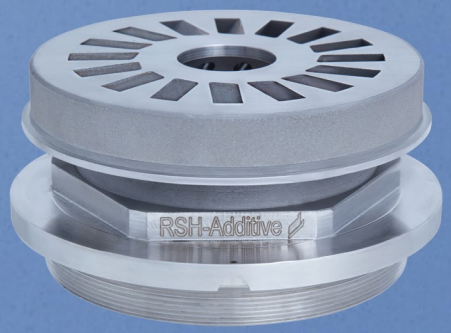
Materials We Work With

We work with a wide range of alloys, including but not limited to stainless steel, aluminum, titanium and nickel & cobalt superalloys. this allows us to produce parts for various industries.

- Stainless Steel: 316L,17-4PH
- Titanium: Ti 64,TiAl
- Nickel: IN718, IN625, IN738LC, HX
- Cobalt: X-40

Quality Assurance

Quality is the most important commitment at Roein Sazeh. we adhere to implement last versions of QC & QA systems to ensure that each our company products meets the highest standards of performance and durability. our commitment to quality extends to all aspect of operations from material selection to final inspection.



Roein Sazeh

GE-F9 Gas Turbine Swirler

Basically, types of GE gas turbine fuel nozzle (swirlers) are made from separated machined parts and then joined together using welding technology due to their complex geometry. So, they generally suffer from cracking in HAZ of welding area during service operation in high temperature and corrosive atmosphere under high frequency stresses of combustion. As a solution for this problem Roein Sazeh delivered new designs of the GE-F9 gas turbine fuel nozzle tip made from improved material and fully integrated by using additive manufacturing technology with no welding zone. There will be no more crack in HAZ because there is no HAZ by eliminating welding process.

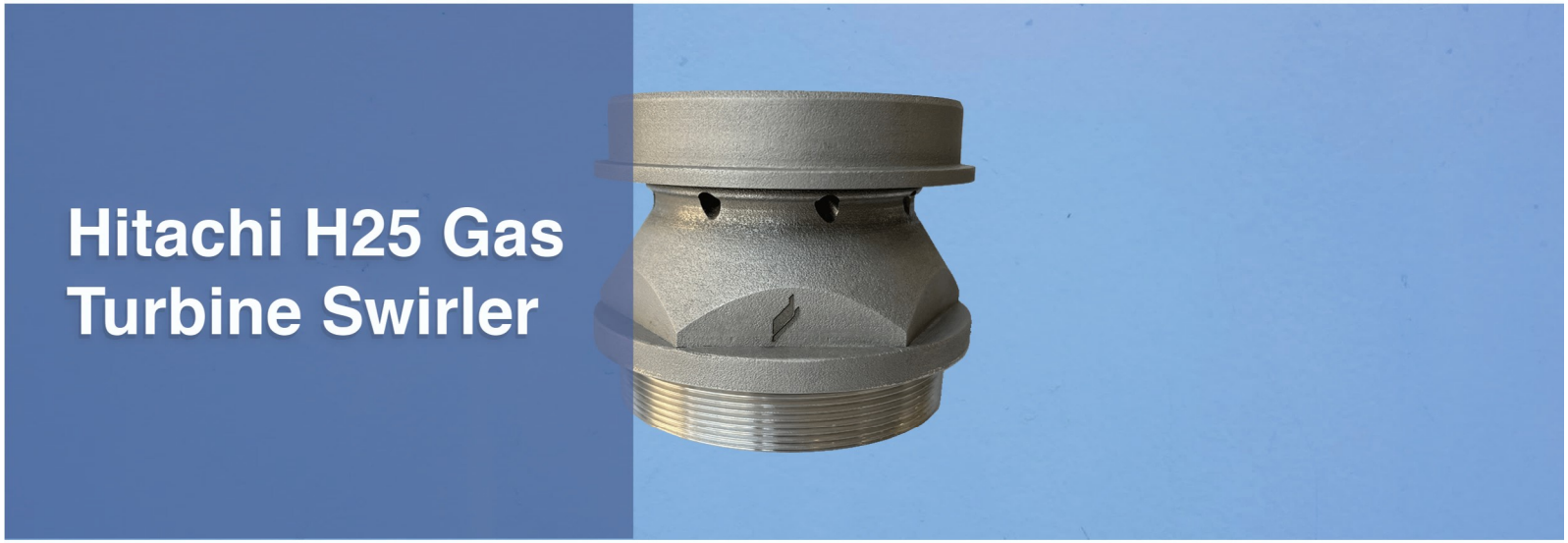
Product Specifications

- Application: Power Plant, Oil & Gas
- Mfg.Tech. : 3D Printing
- Material: SS316L
- Dimension(mm): 150 X 73
- Qty Per Set: 14
- Weight(g): 3500
- Operation Certified

H25 Gas Turbine fuel nozzle (swirlers) are made from separated machined parts and then joined together using welding technology due to their complex geometry. Roein Sazeh delivered new design of the H25 Gas gas turbine fuel nozzle tip made from improved material and fully integrated by using AM technology with no welding zone which leads prevailing fatigue surface cracks.

Product Specifications

- Application: Power Plant, Oil & Gas
- Mfg.Tech. : 3D Printing
- Material: IN718
- Dimension(mm): 94 X 72
- Qty Per Set: 10
- Weight(g): 1200
- Operation Certified



Aero Engine Titanium Bracket

Titanium is known for its high strength-to-weight ratio, making it an ideal material for aeroengine brackets. But it is very complicated and extensive to cast it into complex shapes of a typical aero brackets. At Roein Sazeh we have developed additive manufacturing of Ti alloys to deliver a fast, reliable and cost-effective alternative solutions. Higher tensile and fatigue strength of 3D-preited parts made by Roein Sazeh can make sure our customers from our exceptional performance and durability beside to significant lower design-to-fly time.

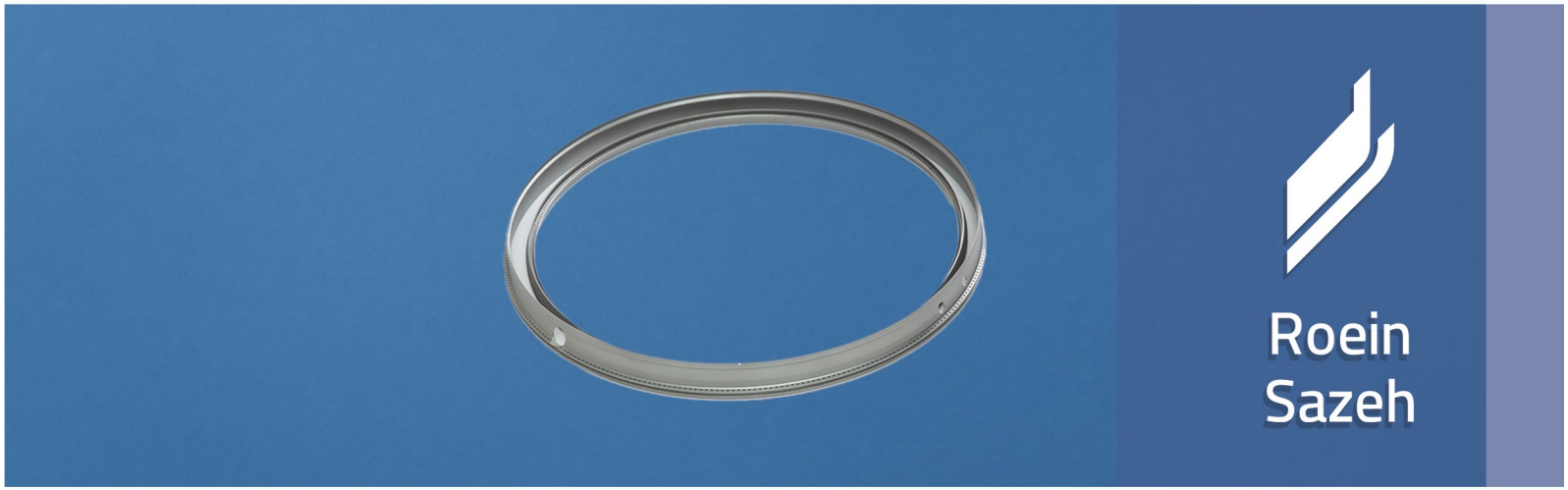
Product Specifications

- Application: Aero engine
- Mfg.Tech. : 3D Printing
- Material: Ti-6Al-4V
- Dimension(mm): 122 X 65
- Weight(g): 300
- Operation Certified

At Roein Sazeh, we can create a wide variety of titanium brackets with a complex geometric and intricate internal structures that optimize strength while minimizing weight.

Product Specifications

- Application: Aero engine
- Mfg.Tech. : 3D Printing
- Material: Ti-6Al-4V
- Dimension(mm): 115 X 80
- Weight(g): 190
- Operation Certified

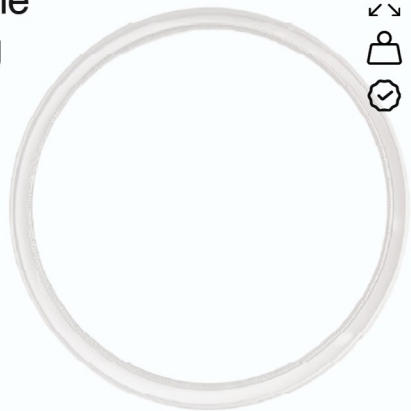


Combustion Cahmber Ring

At Roein Sazeh we deliver a unique solution for produce of combustion chamber rings using additive manufacturing technology to get rid of mold design and manufacturing and fine cooling holes drilling problems.

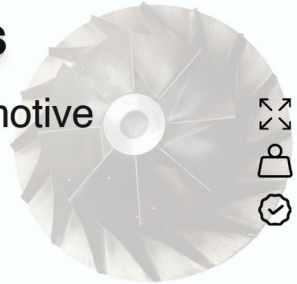
Product Specifications

- Application: Aero engine
- Mfg.Tech. : 3D Printing
- Material: Hastelloy X
- Dimension(mm): 650 dia. X 40
- Weight(g): 2500
- Operation Certified



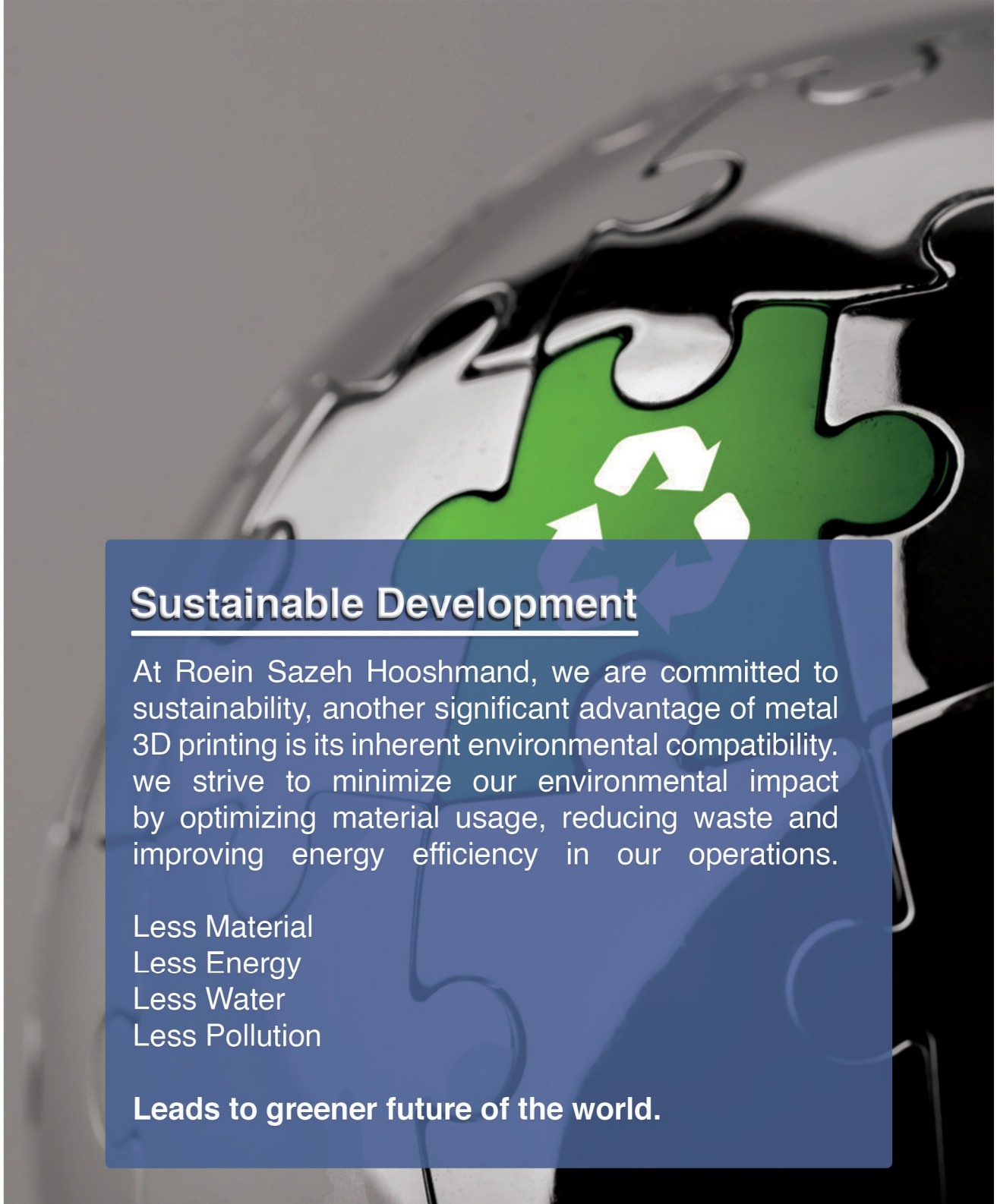
Roein Sazeh employs additive manufacturing technology to offer the best solutions for manufacturing of wide range of turbocharger wheels.

Product Specifications



- Application: Railway & Automotive
- Mfg.Tech. : 3D Printing
- Material: Ti64
- Dimension(mm): 180 dia. X 130
- Weight(g): 2300
- Operation Certified

Turbocharger Compressor and Turbine Wheel



Sustainable Development

At Roein Sazeh Hooshmand, we are committed to sustainability, another significant advantage of metal 3D printing is its inherent environmental compatibility. we strive to minimize our environmental impact by optimizing material usage, reducing waste and improving energy efficiency in our operations.

Less Material
Less Energy
Less Water
Less Pollution

Leads to greener future of the world.

Achievements

This Standard includes an increased emphasis on customer satisfaction and ensures that management is focused on continual improvement.

Contact Us

2nd Floor, No. 22, Khalilzadeh St,
Valiasr Ave., TEHRAN. IRAN

info@rsh-additive.com

021 860 889 86-7