

# CENTER OF INNOVATIVE TECHNOLOGIES

At the heart of innovative technologies to work  
with customer's needs and cooperation



[www.goldtech.kr](http://www.goldtech.kr)

# GREETING

We will become a company that contributes to enhancing the value of our customers with the will and passion even in a rapidly changing business environment.

How do you do?  
Gold Tech Co., Ltd. is the leader in precision machinery industry for developing new technology in the industry. Founded in 2003, Gold Tech Co., Ltd. has contributed to the improvement of national competitiveness by developing and supplying core products of national key industries such as highly reliable defense products, aviation parts, and semiconductor machine parts based on excellent precision machinery technology.

We strive to achieve customer satisfaction by producing the best reliable products. Every employee is united together and putting our faith in the future into our products and services and doing our best to make our customers happy. I wish you all health and happiness.

Thank you.

## All of Managers and Employees



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# OVERVIEW

Founded in 2003, Gold Tech Co., Ltd. has contributed to the improvement of national competitiveness by developing and supplying core products of national key industries such as highly reliable defense products, aviation parts, and semiconductor machine parts based on excellent precision machinery technology.

Company Name	Gold Tech Co., Ltd.
CEO	Han-Sik Im
Established	November 01, 2003
Employees	15 People
Capital	1.6 million\$ (U.S.)
Address	28, Ungcheonseo-ro 41beon-gil, Jinhae-gu, Changwon-si, Gyeongsangnam-do
Contact	Tel : +82-55-283-9150   Fax : +82-55-286-9150   Email : gold1@goldtech.kr
Main Product	Defense Parts, Aerospace Parts, Semiconductor Equipment Chambers, etc.
Business Areas	Defense Industry, Aerospace Industry Parts, Vacuum Chamber, Industrial Machine Trade (Export), Engineering, Industrial Machine Installation and Repair

SINCE 2003



- 2022

09

Patent registration of pollution gas purification system  
Patent registration of electric precipitator
- 2021

05

Development of Gold Tech Co., Ltd. Water Flow Tester, Strength and Leak Tester
- 04

Mass production of engine propellant for Hyundai Rotem Company
- 01

Acquired ISO 14001 : 2015 Certification
- 2020

07

Patent registration for vortex generator for automobile internal combustion engine
- 02

Patent registration of automobile muffler exhaust holder (Design rights)
- 2016

06

Selected as Clean Business Site  
Selected as a co-ops program company  
Selected as Work-Education Parallelism Company  
Sun-il Tech line incorporated
- 04

Selected as a promising small and medium-sized business by BNK Kyongnam Bank
- 2013

04

Patent registration for golf putter
- 2012

12

Established Gold Tech Co., Ltd. Research Institute.
- 09

Moved to a larger facility located in Jinhae South Gate District Industrial Complex
- 07

Corporate Conversion. (Gold Tech. Co., Ltd.)
- 2011

07

Factory site concluded (2,510m<sup>2</sup>) of factory site agreement. (Jinhae South Gate District Industrial Complex)
- 06

Acquired AS9100 Certification
- 04

Selected as venture enterprise  
Selected as technological innovation type company (INNO-BIZ)
- 2010

06

Hyundai Rotem Co., Ltd. (Participated in Engine propellant development)  
Moved to a larger facility located in B120~121, Meka dong, SK Techno Park, Chang-won
- 05

Pohang Accelerator Laboratory(PAL) (Participated in 3.5 generation linear accelerator project)
- 2007

03

Patent registration for assembly type vacuum box and manufacturing method
- 2006

03

Factory site Shifted to Chang-won Uni. Business Incubator
- 2003

11

Founded Gold Tech

# CERTIFICATE STATUS

Gold Tech Co., Ltd., as a company, has flourished with rich experience and high technical expertise, having garnered numerous patents and certifications. Our diverse achievements strongly attest to our commitment to innovative technology and outstanding professionalism.

## Patent



- 1 Electric Precipitator
- 2 Pollution Gas Purification System
- 3 Vortex Generator of Automobile Internal Combustion Engine
- 4 Design Registration : Automobile Muffler Exhaust Holder (Design Rights)
- 5 A Golf Putter
- 6 Patent Registration : Vacuum Related Exclusive License

## Certification



- 1 AS9100 REV.D ISO 9001:2015
- 2 ISO 14001
- 3 Venture Business Certificate
- 4 INNO-BIZ Certificate
- 5 R&D Center Certificate
- 6 Small and Medium Business Confirmation Certificate
- 7 National Human Resources Development Consortium Agreement
- 8 Changwon National University Family Company Certification
- 9 Kyungnam University Industry-University Cooperation Partner Company Agreement
- 10 Competitive Bidding Participation Qualification Registration Certificate

# PRODUCTS INTRODUCTION

Aerospace

Semicond Machine Part

Defense Industry

Industrial Machine Part

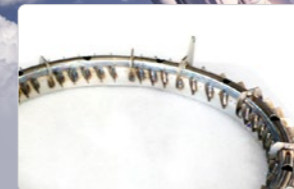


## AEROSPACE

Fuel Injection Device  
For Rocket Engine  
Injection Nozzle



Fuel Injection Device Assembly



Gutter Assembly

Naro (KSLV-I : Korea  
Space Launch Vehicle-I)

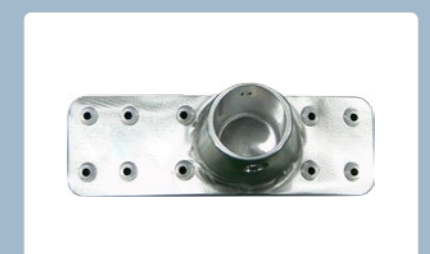
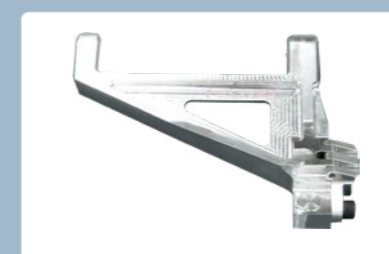


Cooling Channel Sample



PCD Substrate For Satellite

T-50



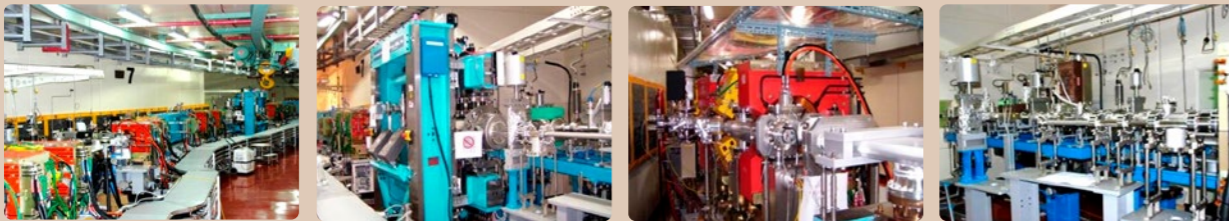
## SEMICONDUCTOR MACHINE PART

### 3th Generation Linear Accelerator

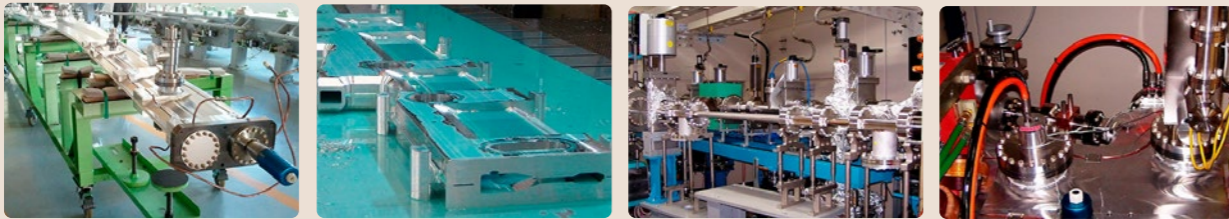
When the electron beam is accelerated in the linear accelerator to maintain high energy and enters the storage volume, it curves and generates spontaneous emission radiation, providing a wide range of light to the beam line. As a feature of the 3rd Generation, stronger light is obtained by inserting an undulator between pole magnets.



#### 3th Gen Linear Accelerator Interior View



#### 3th Gen Linear Accelerator Assembled Photos



#### 3th Gen Linear Accelerator Processed Product



### 4th Generation Synchrotron Radiation

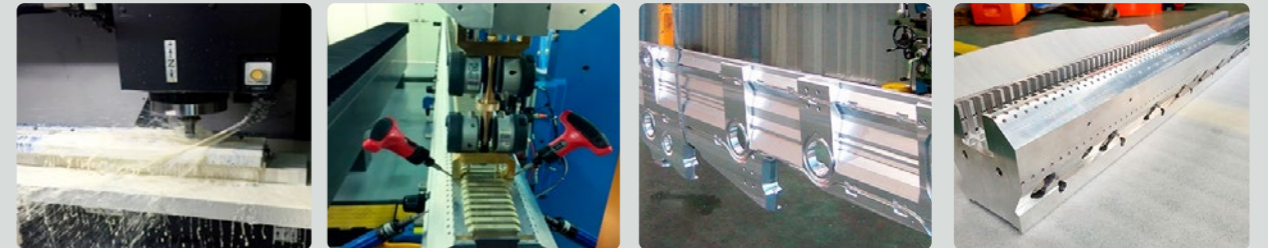
Radiation light source has recently attracted worldwide attention because of its higher electron energy and a longer undulator to create much shorter and stronger light compared to the 3rd Gen. At the beginning, electrons pass through the undulator and emit light just like 3rd Gen, and as the distribution of electrons themselves changes, they become micro and radiation comes out stronger from this structure. Compared to the 3rd Gen, the average brightness is about 100 times stronger, the maximum brightness is more than 100 million times stronger, and the pulse length is 100 times shorter, making it suitable for studying more dynamic phenomena than the 3rd Gen.



#### 4th Gen Synchrotron Radiation Assembled Photos

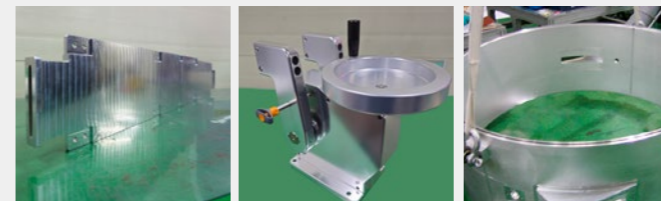


#### 4th Gen Synchrotron Radiation Processed Product



### Vacuum Chamber

#### Medical



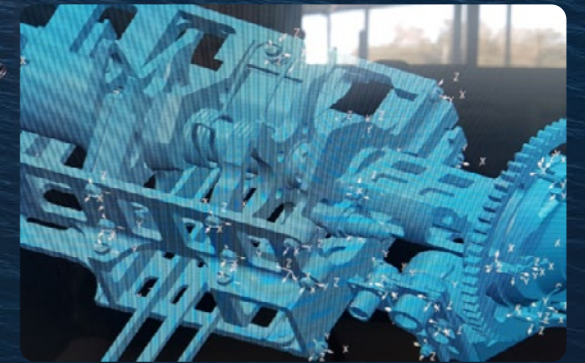
#### Semiconductor



## DEFENSE INDUSTRY



LAH(LIGHT ARMED HELICOPTER)



Guided Weapon



Gyro



Gyro



Gyro



Propellant Motor  
Cooling Case

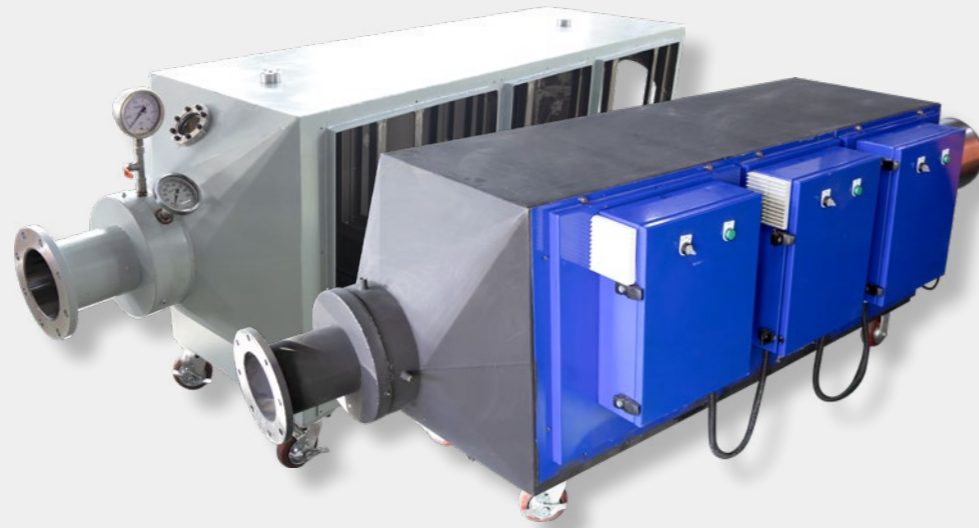
ETC.



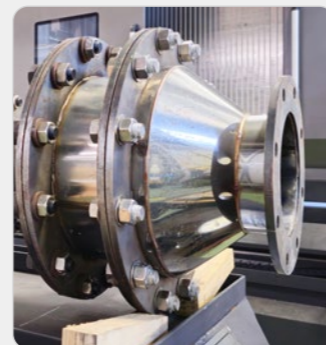
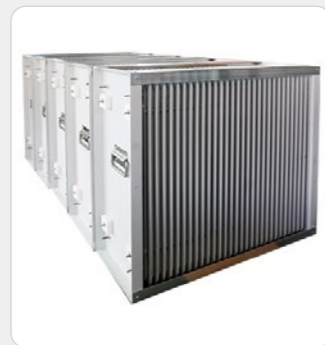
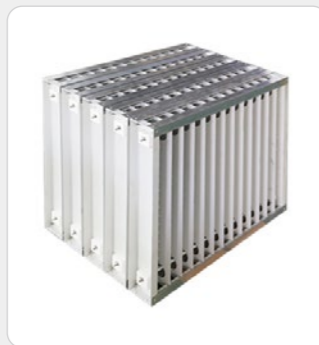
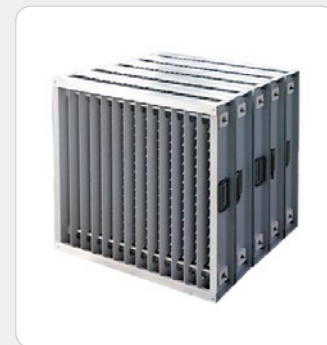
## INDUSTRIAL MACHINE PART

### Electric Precipitator

It is an air purifying device that applies an electric field to floating dust in the air to make it electric, and collects the particles with electrostatic force to purify air. We create a pleasant working environment by installing an electric precipitator to remove various mist, dust, fumes from cutting oil/grinding oil generated at industrial sites.



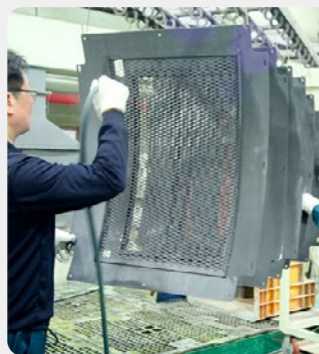
### Electric Precipitator Filter



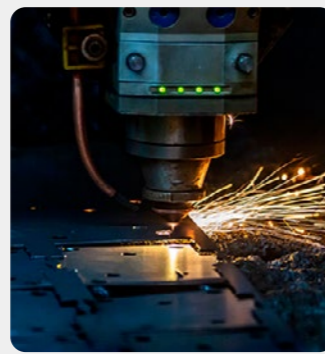
### Major Installation Site



Incineration Plant



Plating Plant



Processing Plant



Restaurant Industry

### Impella



Impeller for Large Compressor



Impeller for Large Compressor



Impeller for Compressor



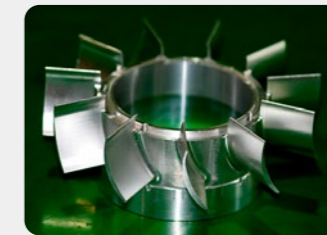
Impeller for 5-axis Machining



Impeller for Superconducting Compression Pump



Turbofan Impeller



Fan Impeller



EGV System Impeller

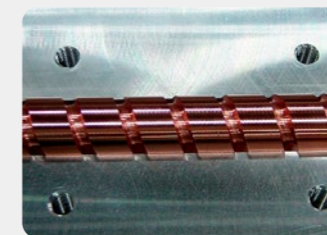
### Etc



Motor Case



Compressor Parts



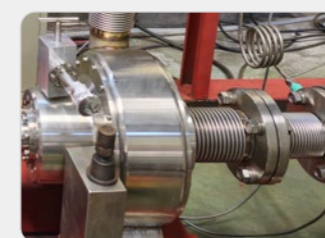
Lead Screw



Quantum Computer Parts



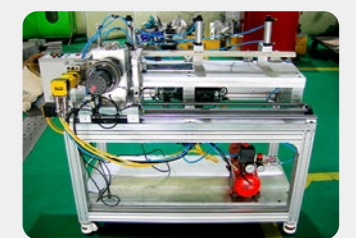
Automobile Radiator Assembly



Cryogenic Pump



Land Turbo Blade Assembly Model



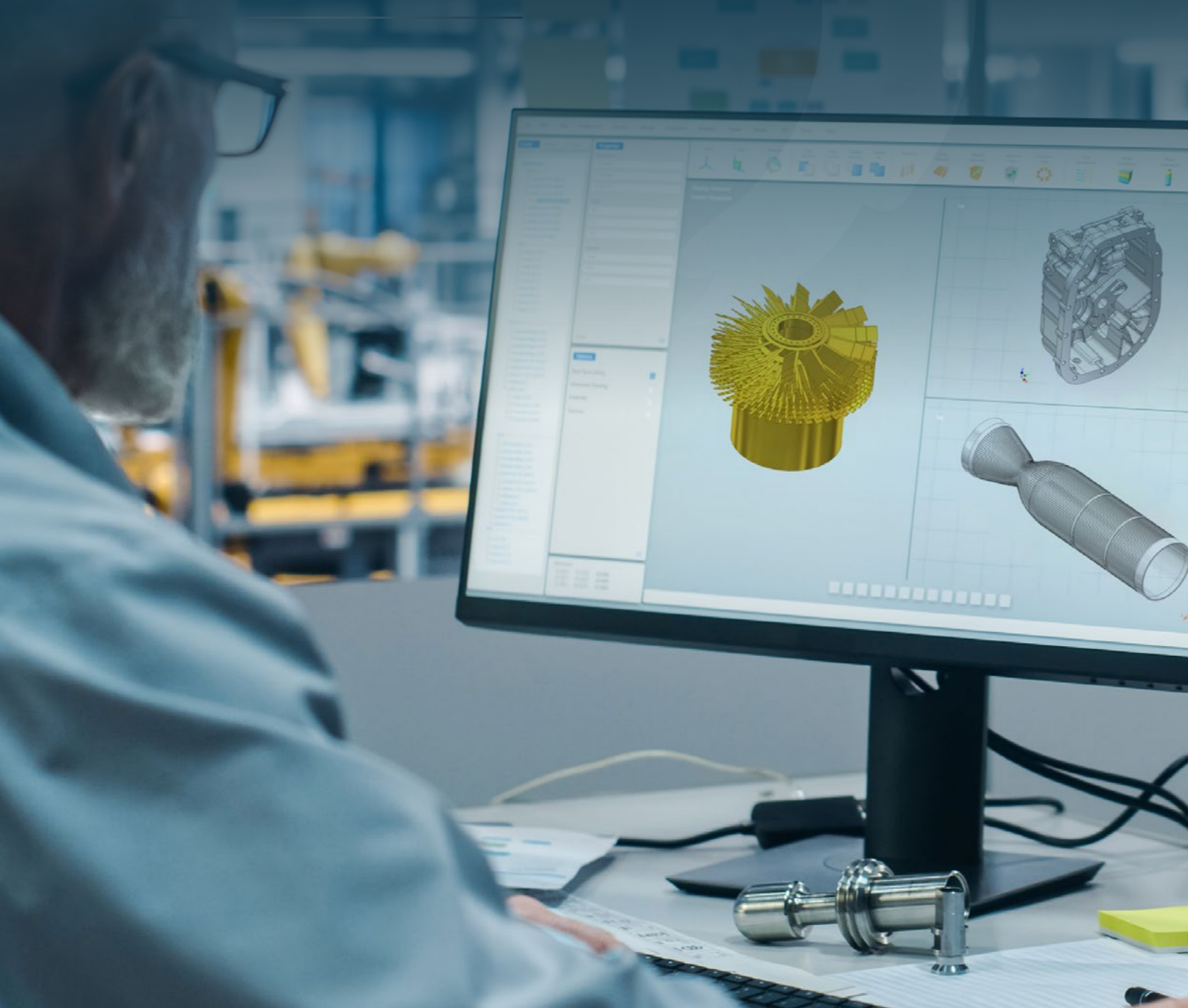
Solar Panel Welding Machine

# RESEARCH & DEVELOPMENT

R&D Center

Research Field

Major Performance

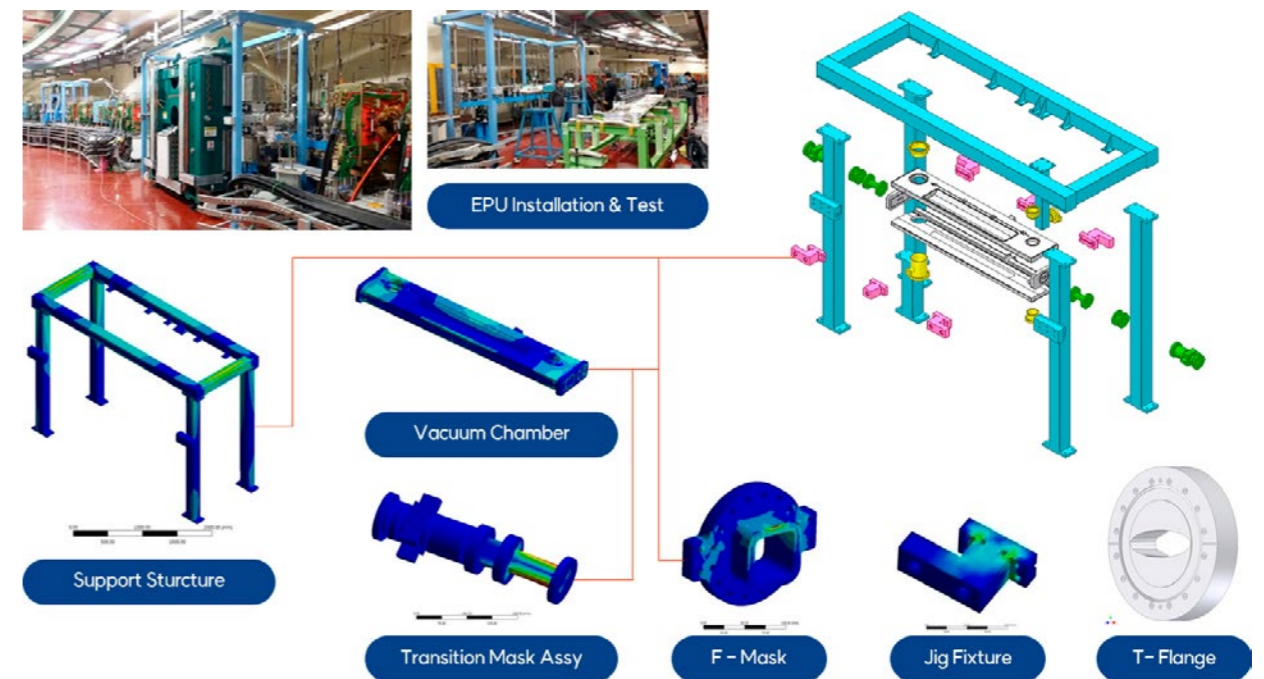


## R&D CENTER

### Pilot Model R&D, Manufacturing



### Product Modeling & Analysis



## RESEARCH FIELD

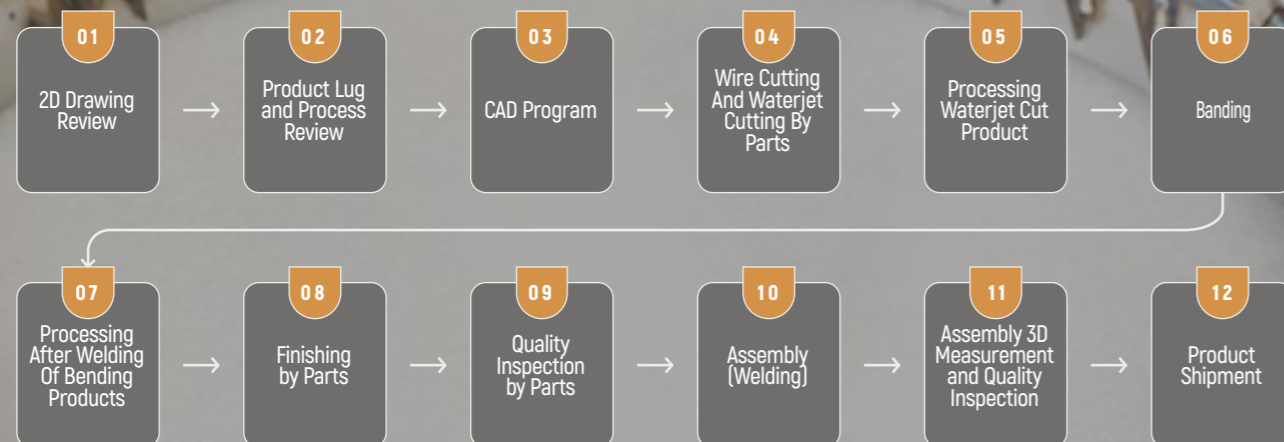
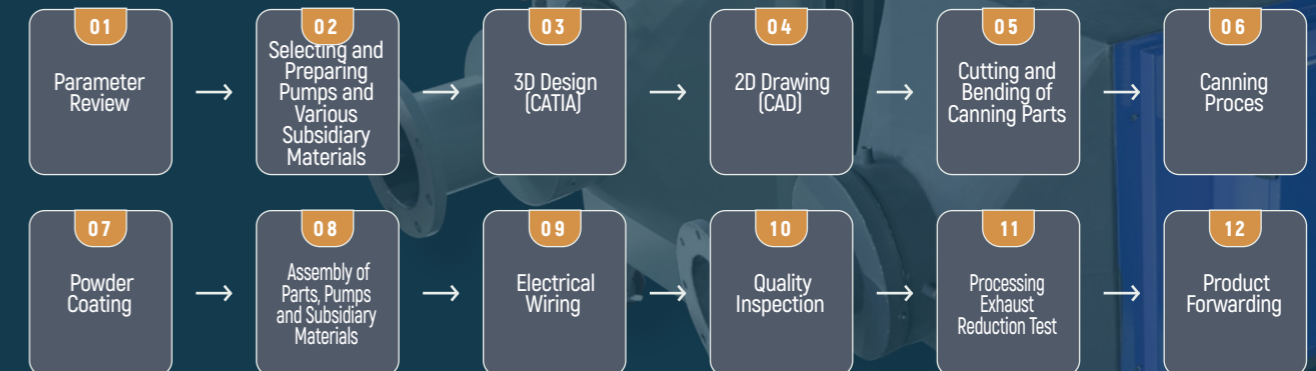
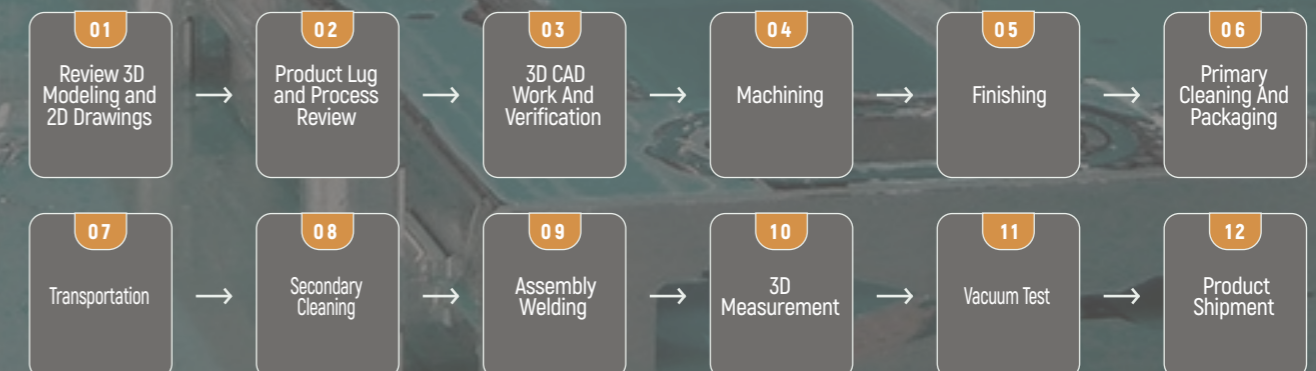
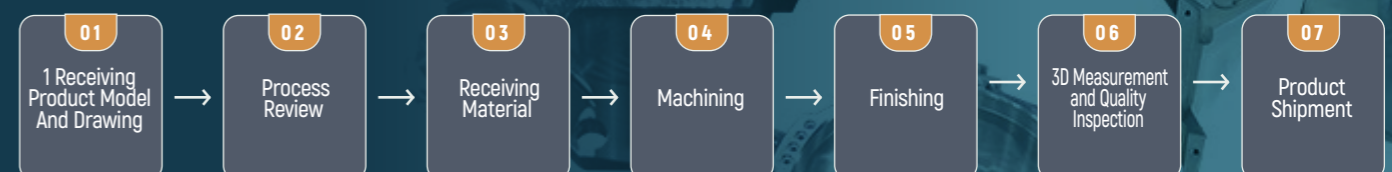
## Aerospace

01  
Fuel Injection Device

For Rocket Engine Injection Nozzle

02  
Fuel Injection Device

For Rocket Engine Injection Nozzle

01  
Electric Precipitator02  
Semiconductor Machine Part03  
Guided Weapon

# MAJOR PERFORMANCE



Product	7 Parts Including the Photo
Company Name	EYAERO
Note	A320 / B787



Product	5 Parts Including the Photo
Company Name	DECO
Note	Unmanned Aircraft Parts



Product	2 Parts Including the Photo
Company Name	Mirae Aerospace
Note	Aircraft Parts



Product	12 Parts Including the Photo
Company Name	Hize Aerospace
Note	T-50 For Export

No	Company Name	Product	Delivery Date	Note
1	Pohang University of Science and Technology Accelerator Research Institute	Aluminum Vacuum Chamber and Other Parts	2010 ~ 2011	Completed
2	Hyundai Rotem Co., Ltd.	Injector Nozzle (Defense Industry Material)	2006 ~ 2012	Development Completed
3	Korea Electrotechnology Research Institute	Research Equipment	2010	Development Completed
4	Pohang Industrial Research Institute	Solar Panel Welding Machine	2008	Development Completed
5	Nuclear Hospital	30MeV Vacuum Chamber	2007	Development Completed
6	Changwon University Industry-University Cooperation Foundation	Impeller for 5-axis Machining	2006	Mass Produced
7	Bogwang Heavy Electric Co., Ltd.	Wind Power Generator Rotor	2008	Development Completed
8	Kwang Ho Precision Co.	Transmission Cold Forging Punch	2007 ~ 2009	Development Completed
9	VITZRO Tech Co., Ltd.	Nuclear Fusion Power Plant Parts	2009	Development Completed
10	Seongsan High Speed	Aircraft Parts (Starting Nozzle)	2005	Development Completed
11	Youngpoong Electronics Co., Ltd.	Joystick (Defense Products)	2009	Development Completed
12	Jeongmin Industrial Co., Ltd.	Automobile Radiator School Tube Punch	2009 ~	Development Completed
13	Erae-automotive System Co., Ltd.	Automotive Parts	2009 ~ 2010	Delivered

No	Company Name	Product	Delivery Date	Note
14	SNT Dynamics Co., Ltd.	Bus Transmission Case	2014 ~	Delivered
15	Pohang University of Science and Technology Accelerator Research Institute	4th Generation Accelerator Parts	2014 ~	Developed, Installed
16	Doosan Enerbility	Bobbin, Winding Machine	2013 ~	Developed, Delivered
17	Gwangju Institute of Science and Technology	Chamber	2012	Developed, Delivered
18	PNS Curtainwall Co., Ltd.	Aluminum Extrusion Mold	2012 ~ 2013	Developed, Delivered
19	World Powertech Co., Ltd.	Steam Turbine Nozzle	2011 ~ 2013	Developed, Delivered
20	Samwoo Metal Industries Co., Ltd.	Aircraft Parts, Defense Industry Parts	2011 ~	Developed, Delivered
21	Coins Co., Ltd.	Klystron Pulse Tank	2013 ~	Developed, Delivered
22	Gyeongnam Alco	Extrusion Mold	2011 ~	Developed, Delivered
23	VMT Co., Ltd.	Vacuum Related Parts	2010 ~	Developed, Delivered
24	Dae Young Industry Electric Co., Ltd.	Electric Parts Case	2013 ~	Developed, Delivered
25	Air Max	Scroll Pump	2010	Developed, Delivered
26	Dong-Eui University Industry-University Cooperation Foundation	VESSEL	2010	Delivered

# PROCESSING EQUIPMENT



**1 Unit Haas Vf-1**  
500 × 400 × 400 / U.S.A



**1 Unit HAAS VF-3**  
1,050 × 550 × 500 / U.S.A



**1 Unit HAAS VF-5/40**  
1,270 × 660 × 635 / U.S.A



**1 Unit HAAS VF-7**  
2,130 × 830 × 750 / U.S.A



**2 Unit AKIRA-SEIKI SR3**  
760 × 400 × 400 / Taiwan



**1 Unit DOOSAN MYNX 6500/50**  
1,270 × 670 × 625 / Korea



**1 Unit DOOSAN MYNX 7500/50**  
1,526 × 763 × 626 / Korea



**1 Unit DOOSAN DNM500**  
1,020 × 540 × 510 1 Unit / Korea



**2 Unit DOOSAN VC630**  
650 × 765 × 520 5 Axis / Korea



**1 Unit SNT FX-450**  
770 × 450 × 510 / Korea



**1 Unit WELE UG800**  
800 × 950 × 650 5 Axis 5 axis / Taiwan



**2 Unit PUMA GT2100**  
390 × 600 NC Lathe / Korea



**1 Unit HWACHEON M2**  
750 × 650 × 500 5 axis / Korea

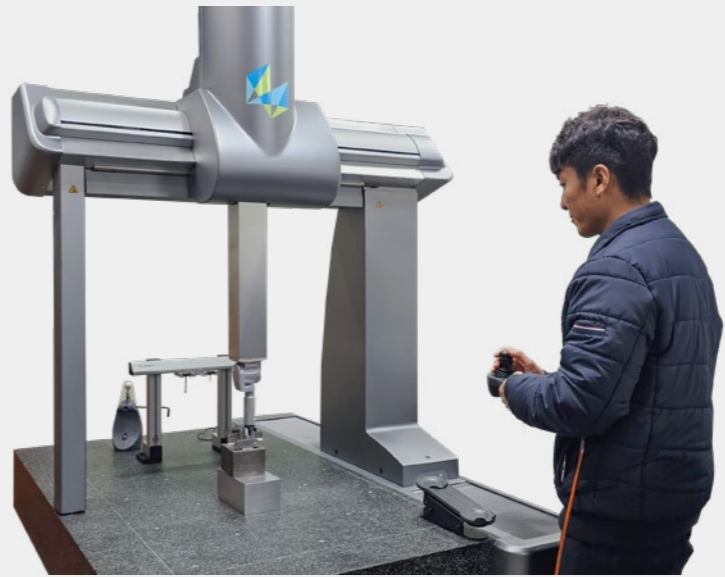
Machinery

Universal Lathes	1 unit Tong-il 400 × 1,060 / Korea
Electronic Wire Cutting Machine	1 unit W2 FANUC / Japan

Software

Hyper Mill	5 axis CAD/CAM / Germany
CATIA	V5R2014(Dassault System) / 5 axis-CAD / CAM / France
VERICUT	VERSION 7.3.4 / U.S.A
IMSPPOST	VERSION 8.2 / U.S.A
CAD	CADIAN-10COPY / Korea

# INSPECTION EQUIPMENT



Gold Tech Co., Ltd. specializes in a myriad of testing equipment, dedicated to elevating the precision of our products. Through the implementation of various inspection tools, we ensure meticulous attention to detail and strive for excellence in product quality. Our commitment to utilizing cutting-edge testing technologies underscores our unwavering dedication to delivering products of the highest precision and uncompromising quality standards.

**3D Measuring Machine**  
HEXAGON Global Lite 9.12.8 / U.S.A



**Water Flow Tester**  
Water Flow & Strength test Rig / Gold Tech Co., Ltd.



**Strength and Leak Tester**  
High Pressure Air Compressor / Oil Supply Type, W-TYPE, Air Cooling Type / Korea

**Contact-Free Measuring Instrument**  
Miracle V3020M / Korea



**Light Meter**  
Mitutoyo SURFTEST SH-310 / Japan





Scan QR code  
with a Smartphone  
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