



應用奈米科技股份有限公司 Applied Nano Technology Science, Inc.



Specific Vacuum (transport) Components Supplier
Spécific Assemblage (transport) Composants fournisseur

Introduction & Portfolio

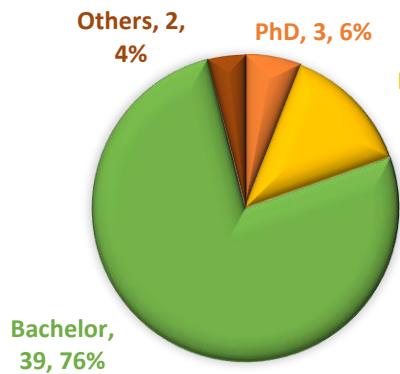
Agenda

- Introduction
- Capability
- Portfolio

ANTS Introduction

Company Profile

- Applied Nano Technology Science, Inc., ANTS



Employee:
51 persons in total

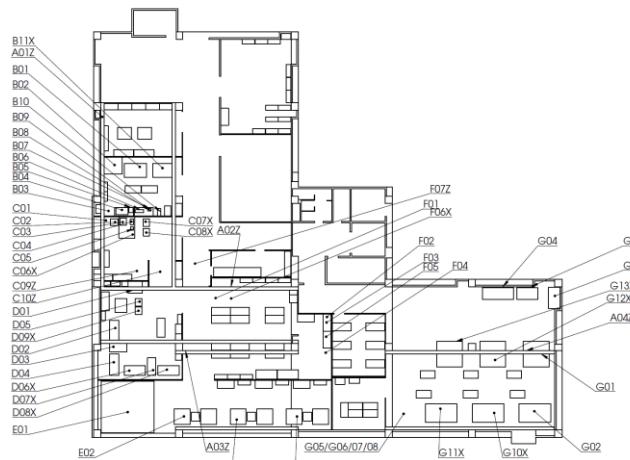
Established in 2001
by Dr. Ih-Hong Loh
and other co-
founders.



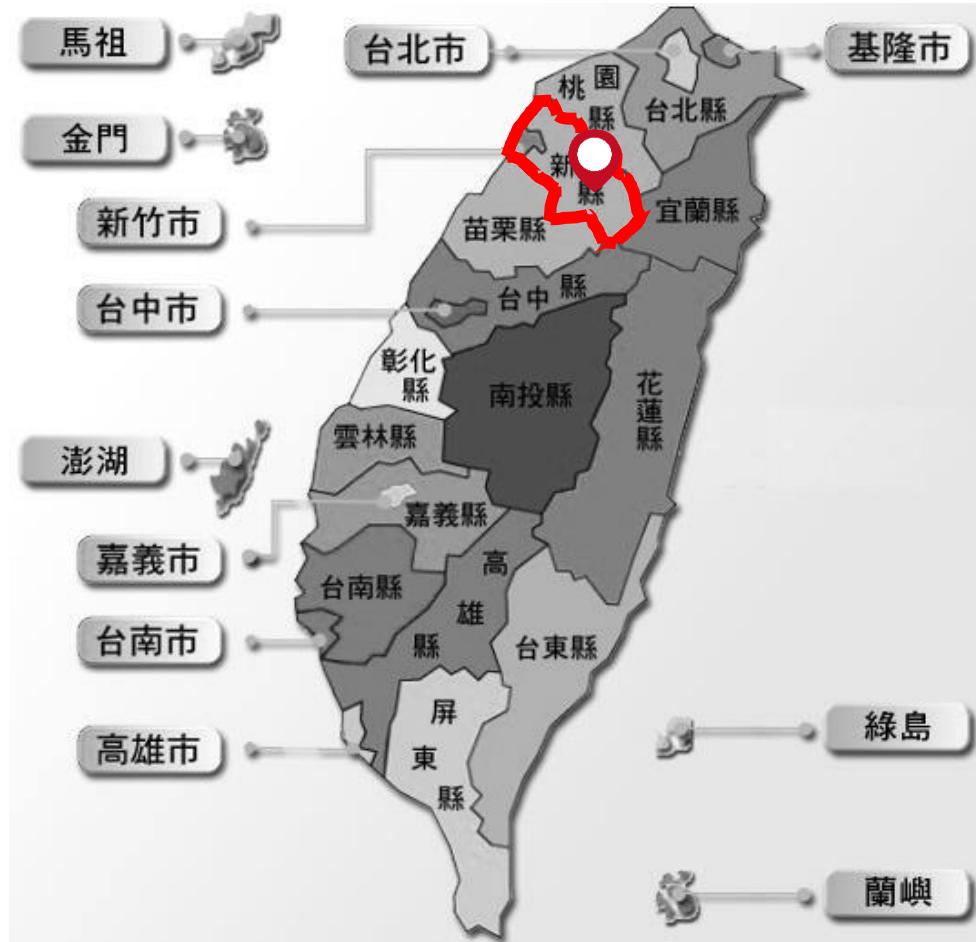
* New plant starts operation in July, 2016.

Company Profile

- Address
 - No. 306, Wenhua St., Qionglin Township, Hsinchu County 30743, Taiwan
- Landscape
 - 4,500 m²



Welcome to visit ANTS



No. 306, Wenhua St., Qionglin Township,
Hsinchu County, 30743, Taiwan (R.O.C.)



Board Members

2013-2014
International
President



MIT, PhD,
Material Science
& Engineering



GSC


sinto

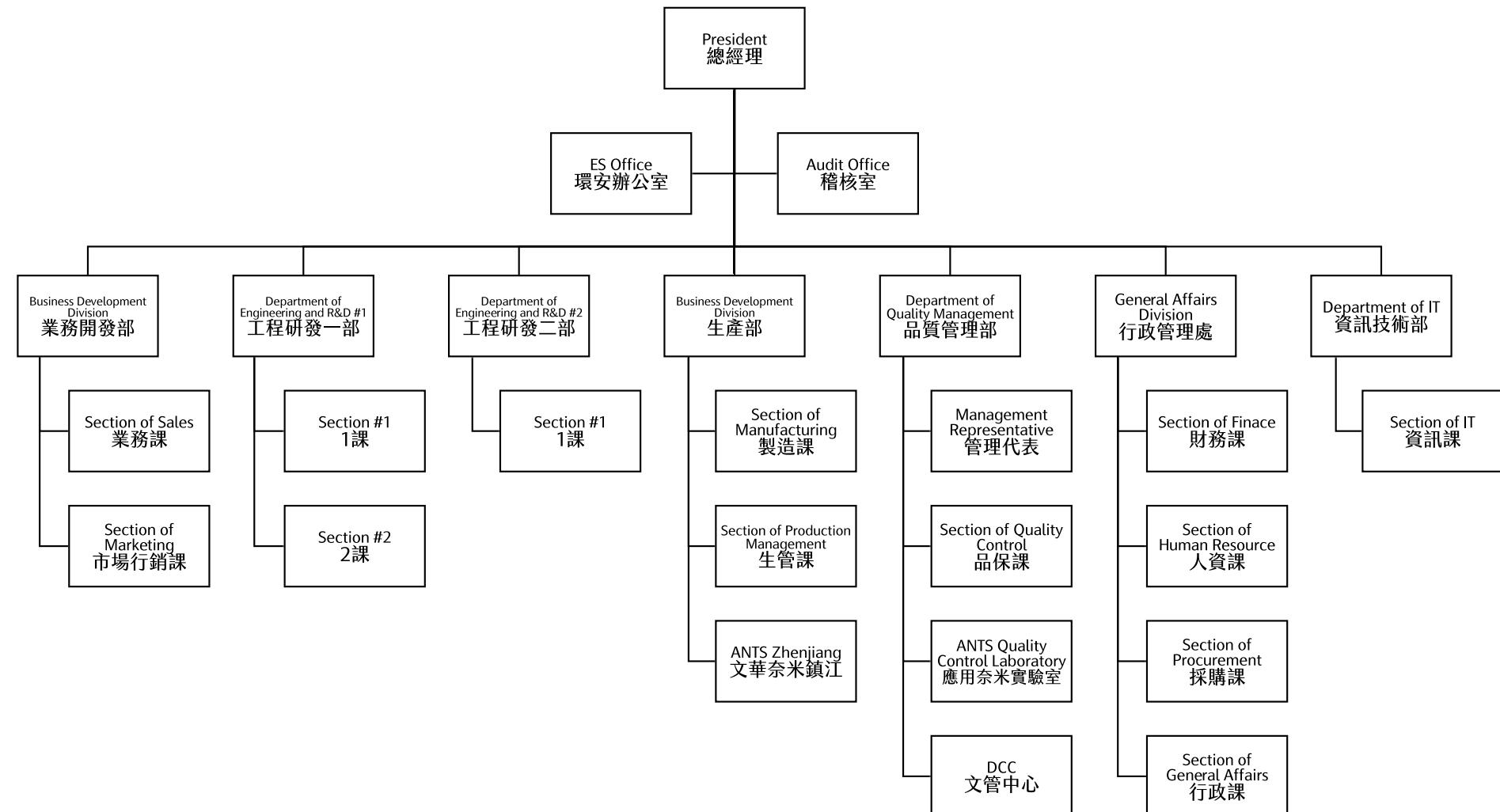

ANTS


**ICARESTM
MEDICUS**
'Vision' Innovation


**AST
PRODUCTS, INC.**

ANTS[®]
APPLIED NANO TECHNOLOGY SCIENCE, INC.

ANTS Org Chart



Core Competence

Vacuum / Control /
Integration / System

Major Portfolio

Vacuum
Module

Own
Equipment

Sales
Representative

End Products

Feed-
through

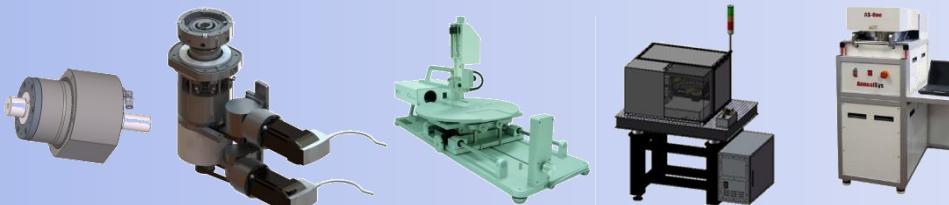
End
Block

VCA

Auto-
mation

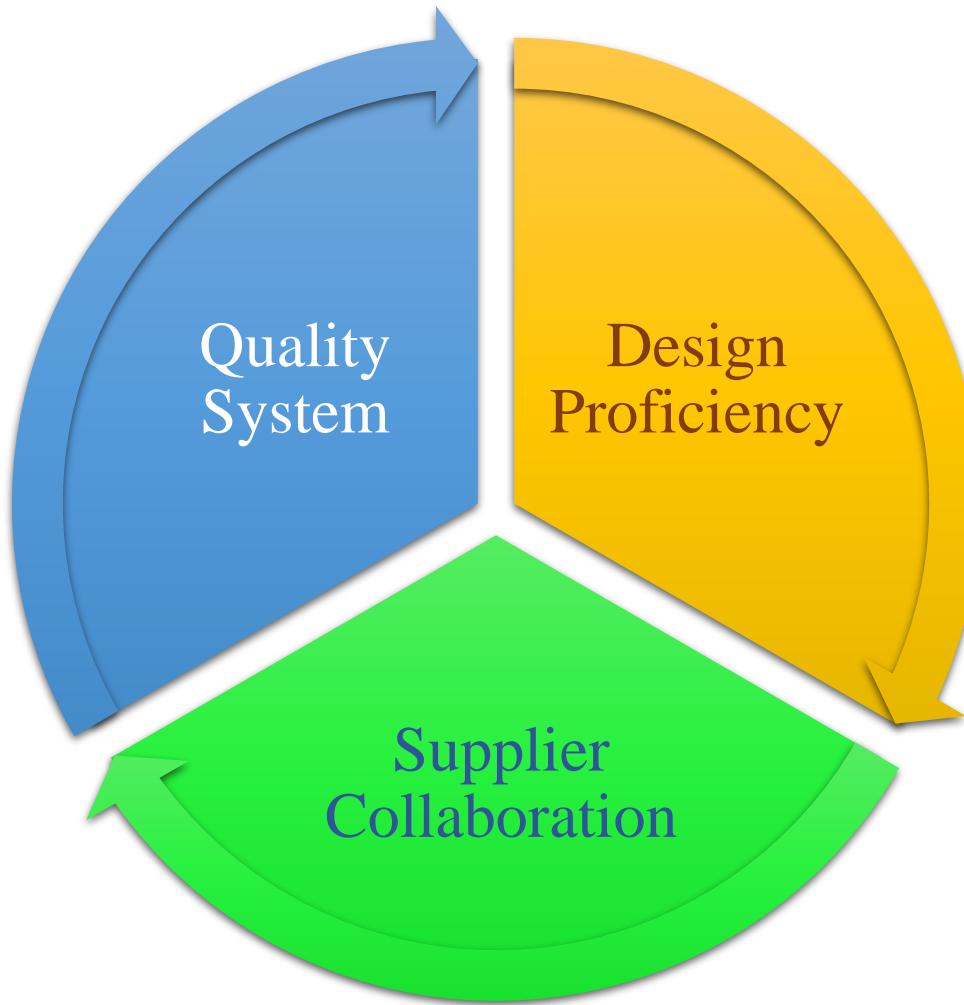
RTP/
ALD

Spare
parts



ANTS Capability

ANTS Capability



Quality System

ISO 9001-2008 => 2015

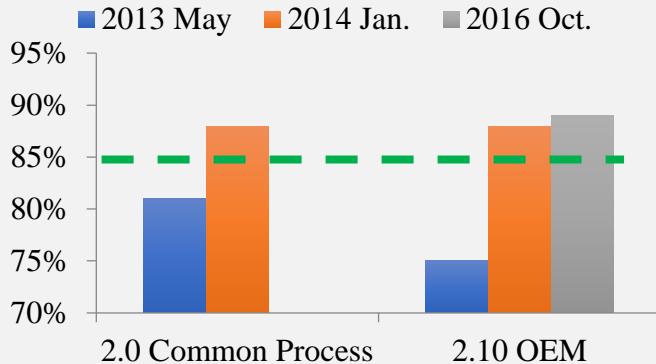


ISO 17025



Scheduled to
certificate in
Jun. 2017

Customer's Technical Assessment



Customer's Quality System Audit



Supplier Collaboration

CNC in Sister company



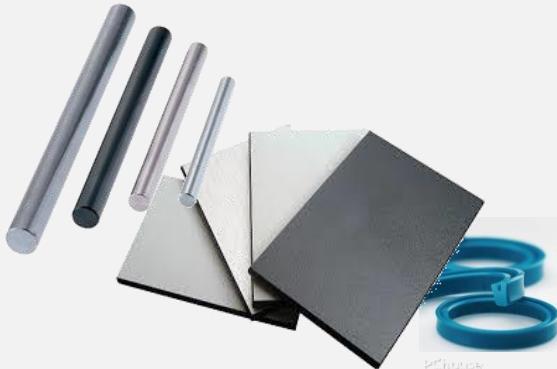
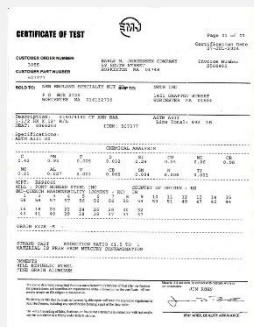
Turning x3, Size \leq 1 m

CNC in Partner company

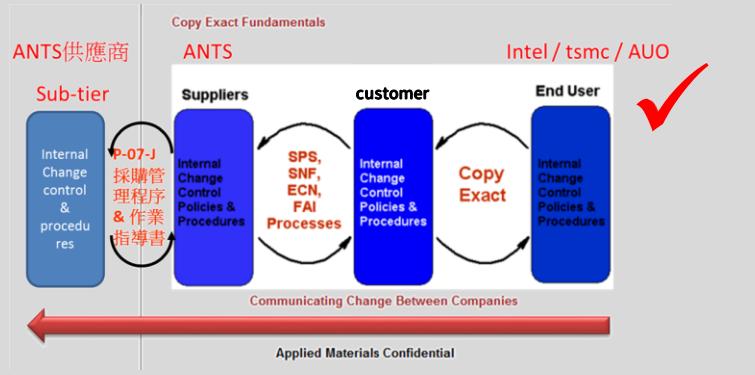


Lathe x a lot , Size \leq 5 m

Material Sources and Certificates

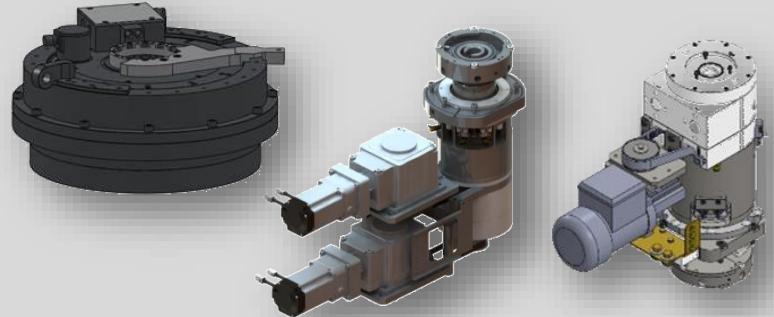


Supp. Selection, NDA&IP Protection

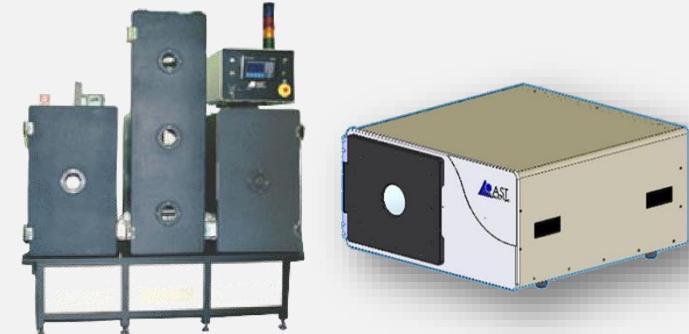


Design Proficiency

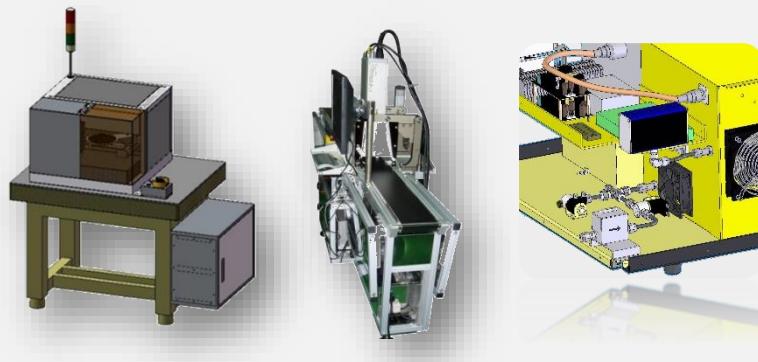
Mechanical Design



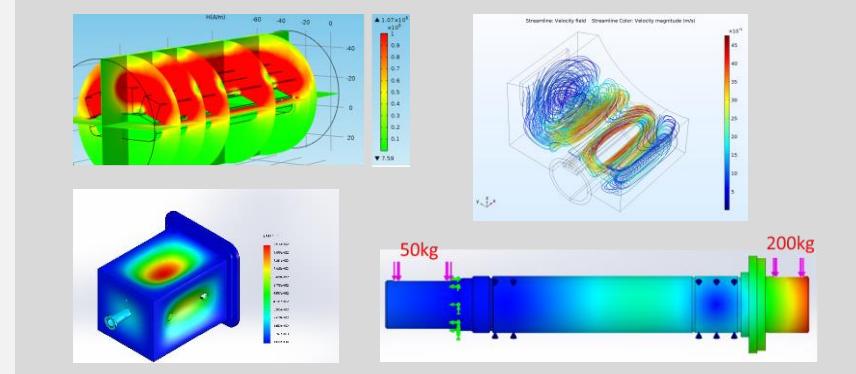
Vacuum Application



Electrical / Pneumatic Integration



Numerical Simulation



ANTS Portfolio

Portfolios

Design capability



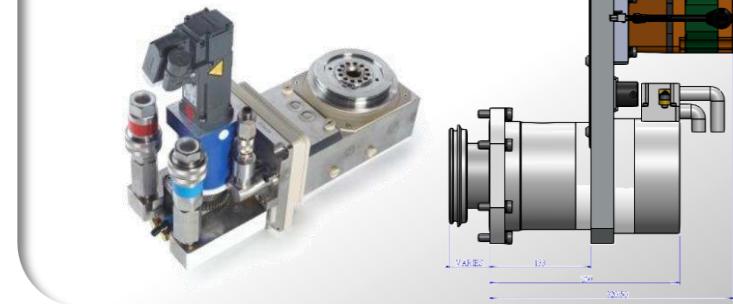
Ø 31mm
rotation
gas through

Ø 128mm
water cooled

Ø 226mm
motor integrated

- Magnetic Feedthrough
- End Block
- VCA
- Automation

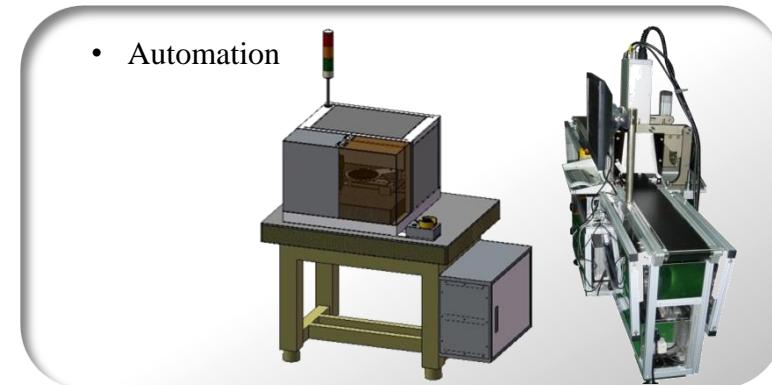
- End Block



- VCA – contact angle measurement



- Automation



ANTS' Customers on Feedthrough

- International EQ suppliers



- Local EQ suppliers



- Robot overhaul companies



- End user

- FPD **AUO INNOLUX**



- Semiconductor **tsmc**



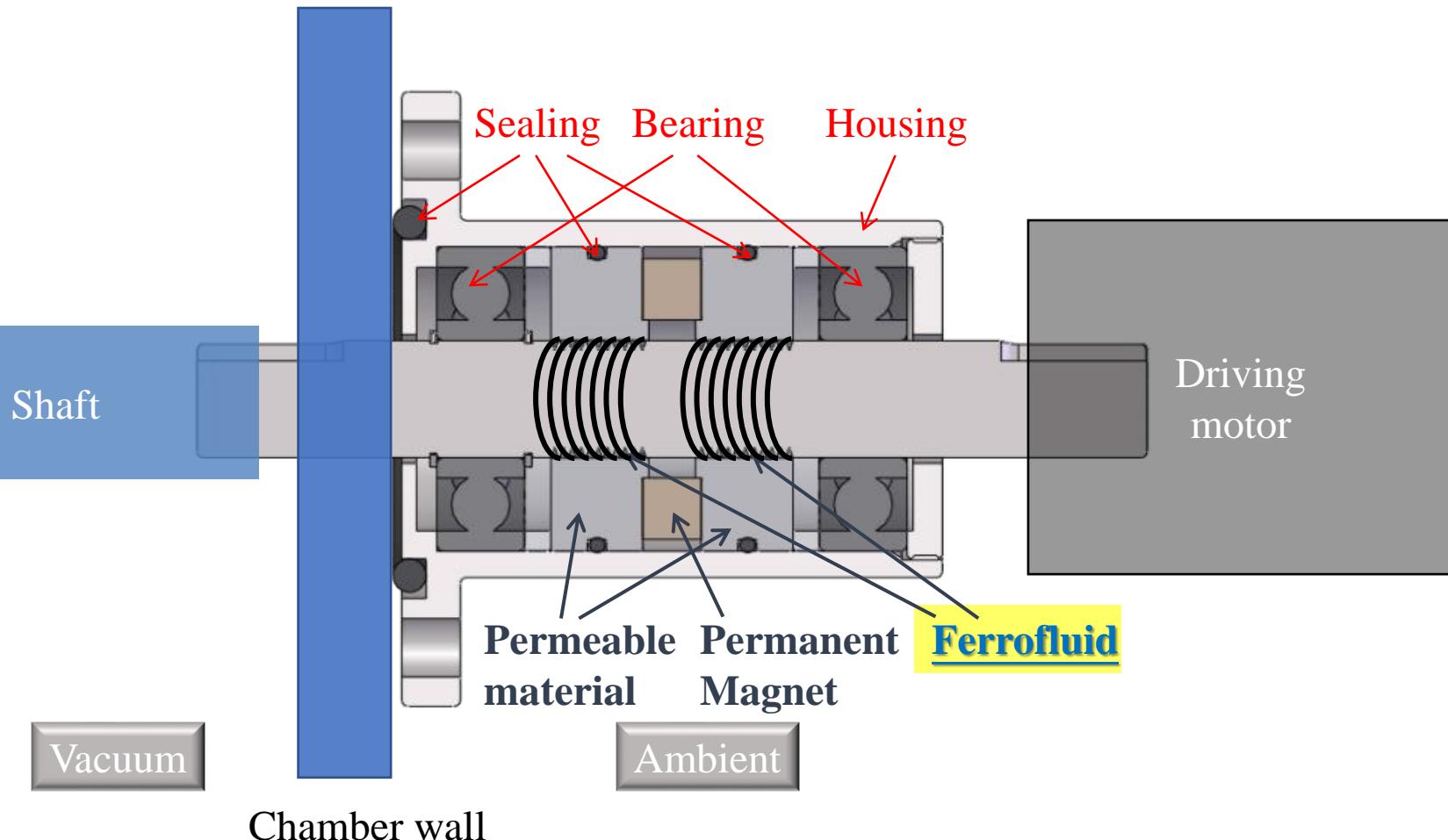
- Solar cell **SAS GINTECH**



- LED **AOT**

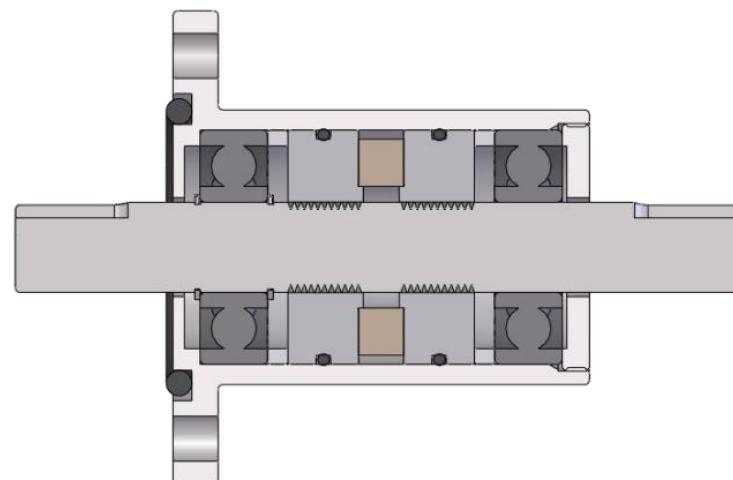


Rotary feedthrough structure



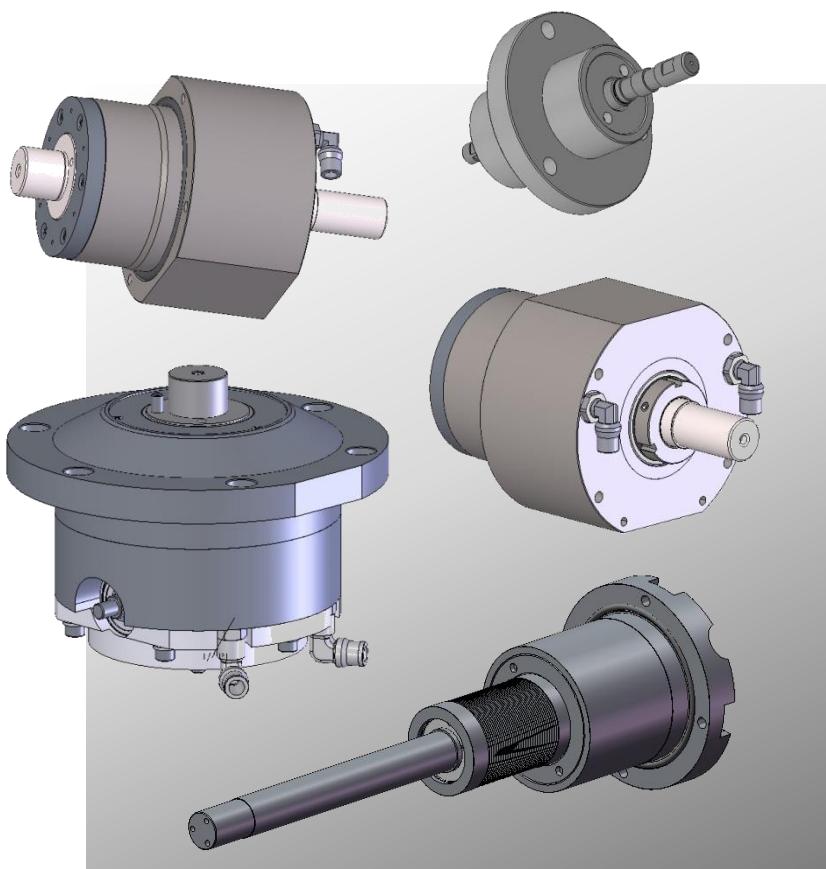
Rotary feedthrough advantages

- Long lifetime
- No friction / no particle
- Low power consumption
- High vacuum / high rpm / high reliability at high temperature

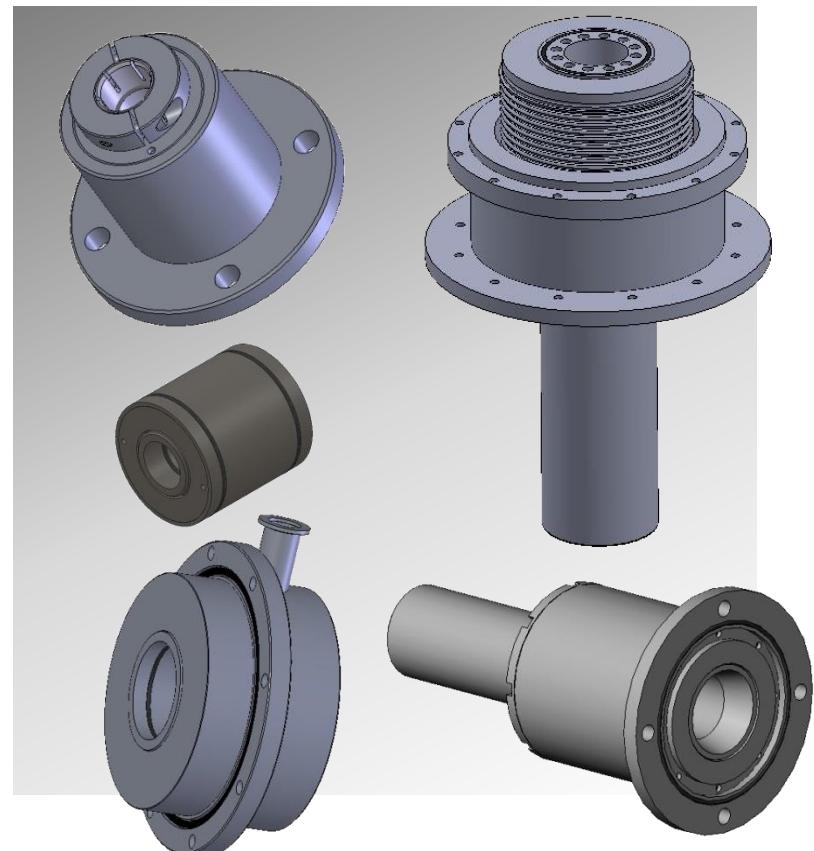


Shaft Types

- Solid

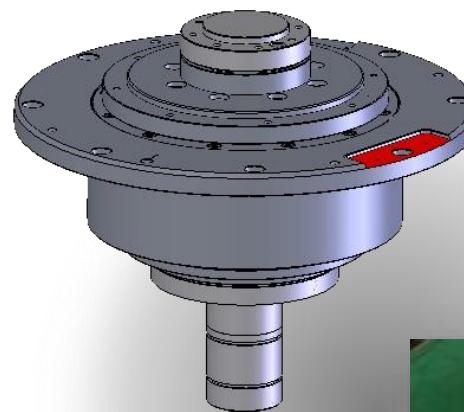
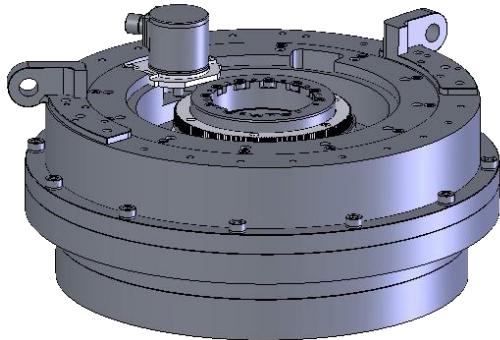


- Hollow

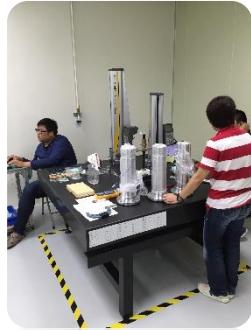


Diversity Design

- Motor integrated
- Multi-axis design



Manufacturing Line



IQC Instrument

Evaluation & QC

Cleaning

Assembly

Dynamic Test

Packaging

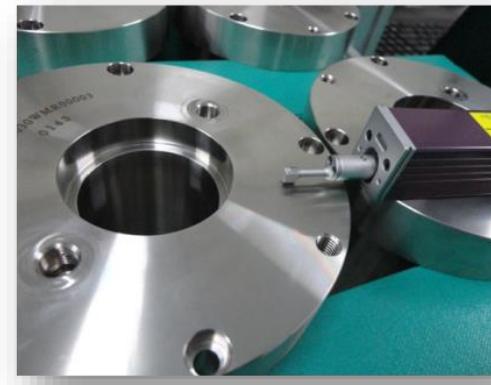
- Height Gauges



- 2.5D / Digital Micrometer



- Surface Roughness Tester



- Well Controlled QC Room



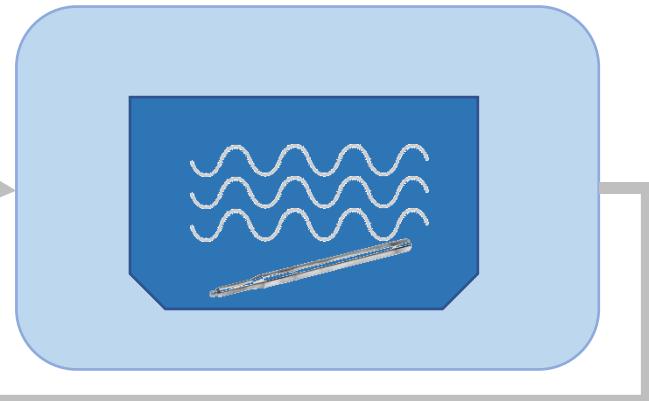
Parts Clean



Preliminary + Chemical Cleaning



Supersonic Cleaning



Drying



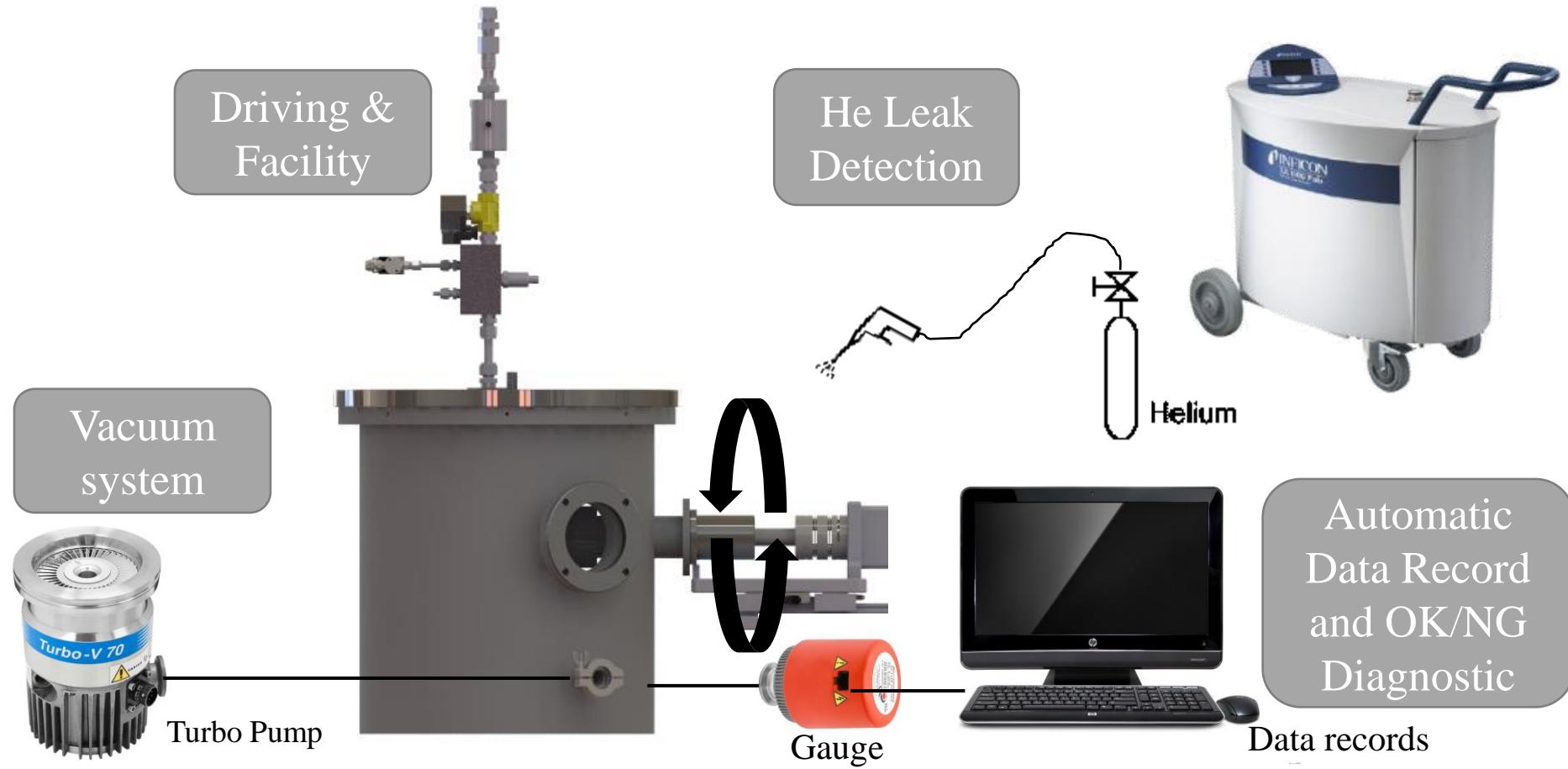
Baking



Assembly



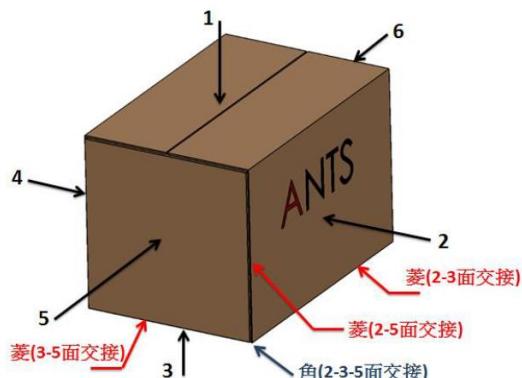
Dynamic Test



Packaging



- Vacuum Bag Packing
 - Following SOP to Pack
 - Well Organized Delivery





Thanks for your attention !