

Introduction of Right Way



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Milestones



Founded in Tainan, Taiwan

Technical Cooperation with Japan ART metal Ltd. for Pistons Technology

Technical Cooperation with Japan Yayoi Forging Co. for Steering & Suspension Parts

Publicly traded on the Taiwan Stock Exchange

Establishment of Right Way Industrial (Kuala Lumpur), Malaysia

ISO 9001 and ISO 14001 Certified

ISO TS16949 Certified

Licensed by NASA (USA) to use high performance materials

Celebrated our 50th Anniversary!

IATF 16949 Certified

Acquired by Ta Chen Stainless Pipe, Ltd



New business-System cabinet started

1964

1967

1973

1980

1989

2002

2004

2005

2014

2018

2022

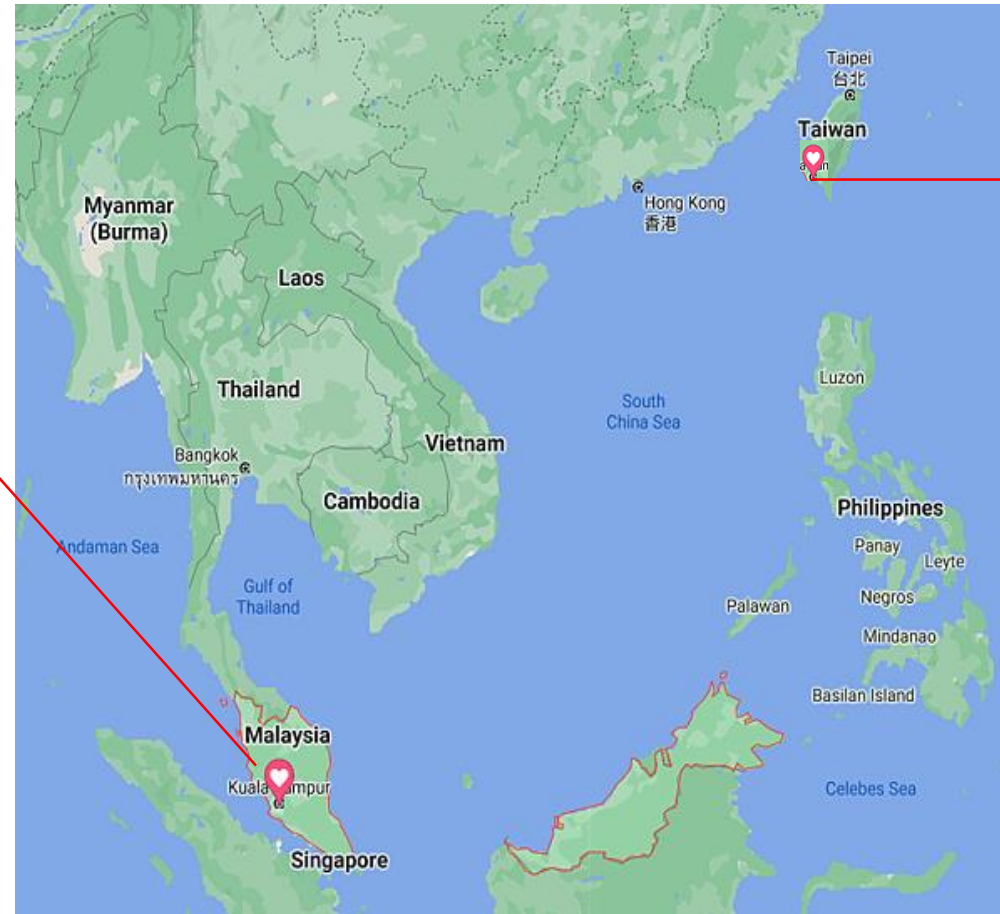
2023

- Metal Business (Existing & Keep Growing)
- System Cabinet Business (New business since Q4, 2022)



RW Kuala Lumpur, Malaysia

- **Mfg. abilities :**
Gravity Casting/LPDC machining
- **Products:**
 - Al Casting parts
 - Al LPDC parts



RW Tainan, Taiwan

Metal processing-

- **Mfg. abilities :**
Gravity Casting/Forging & Machining
- **Products:**
 - Pistons
 - Al gravity castings parts
 - Al forging parts
 - Suspension and Chassis parts

System Furniture-

- **Mfg. abilities :**
-- Professional factory of door panel
- **Products:**
 - EGGER Meixin board
 - JM Meixin board
 - Skin-feeling thermal repair board
 - Skin-feeling thermal repair PET
 - Hardware spare parts distribution

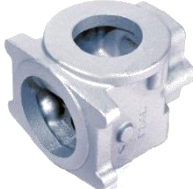


TA CHEN GROUP

Stainless Steel Industrial Product Manufacturing and distribution

Product Applications



Applications	Engines	Steering components	Chassis/suspension	Refrigeration compressors	Industrial
Material	Aluminum/Steel	Aluminum/Steel	Aluminum/Steel	Aluminum	Aluminum
Process	Castings/forgings	Castings/forgings	Castings/forgings	Castings	Castings/forgings
Products	piston  C/R  balance shaft  engine mount  nozzle bracket  manifold 	ball joint  link  tie rod  tie rod  link  valve housing  pinion housing 	subframe  knuckle  control arm  suspension arm  knuckle 	cylinder head  oil pump  throttle valve  pump cover  cam rotor  manifold 	actuator housing  flange  housing  pump housing  pump housing 

Main Customers



Automotive OE		
Automotive OE - Taiwan / Japan / Malaysia	Tier I	
   	  	
Industrial	Recreational Vehicles	Motorcycle (2 & 3 wheels)
        	     	         

Precision Machining

- State of the art CNC Lathes & CNC Machine Centers
- High capacity; operated by highly trained technicians



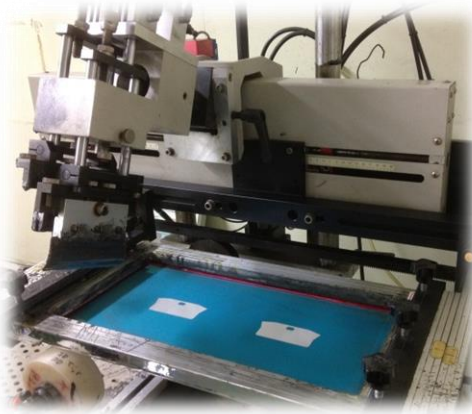
16 lines – for Engine Pistons (dedicated lines)

16 lines – Aluminum light machining
(2* dedicated + 14 multi – purpose)

10 lines – Carbon & Alloy Steel machining (2* engine
conrod + 3* transmission balance shaft + 5* CNC lathe)

Surface Treatments

- Available treatments include: ED coating, Hard chrome plating, Black anodizing, Powder coat and gloss.
- Piston surface treatments include:



Skirt Coating



Anodizing



Tin Plating

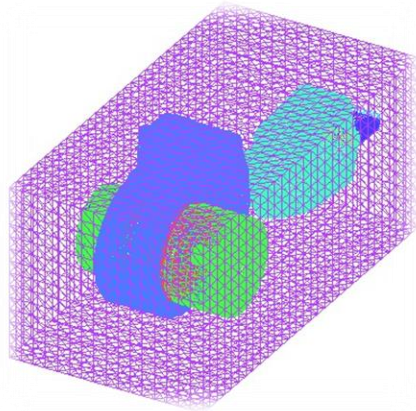


Product Development Process-Aluminum Casting

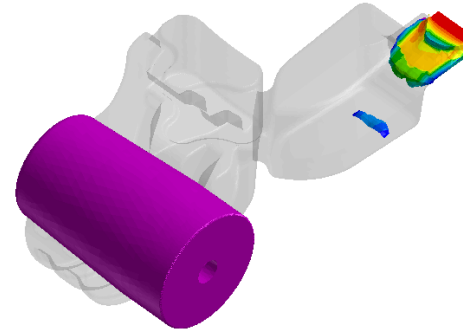
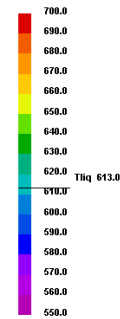


1.CAD model

**To achieve effective mold creation
and excellent blank quality**



2. Initial mold design
is created for analysis



QuikCAST

3.

Casting simulations (QuikCAST)
is used to evaluate the feasibility of mold design



4. Mold fabrication



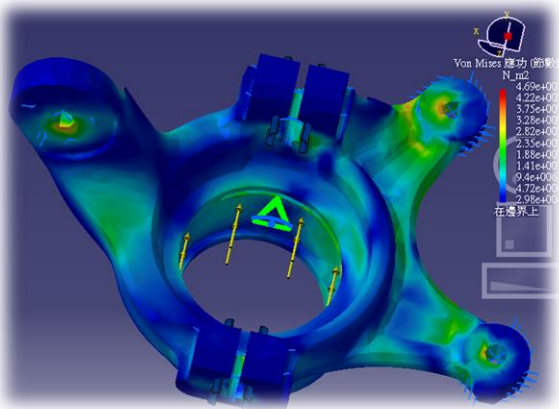
5. Casting trial

Product Development Process-Aluminum Forging



1. CAD model

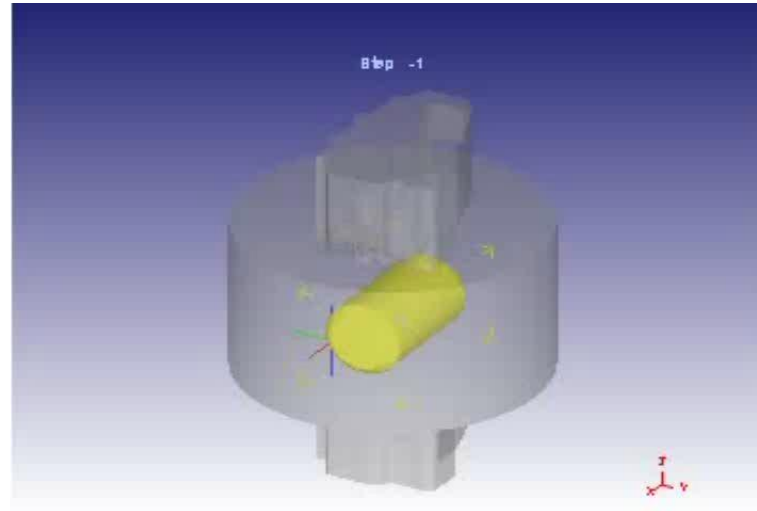
**To achieve effective mold creation
and excellent blank quality**



2.

FEA & Grain Flow simulations

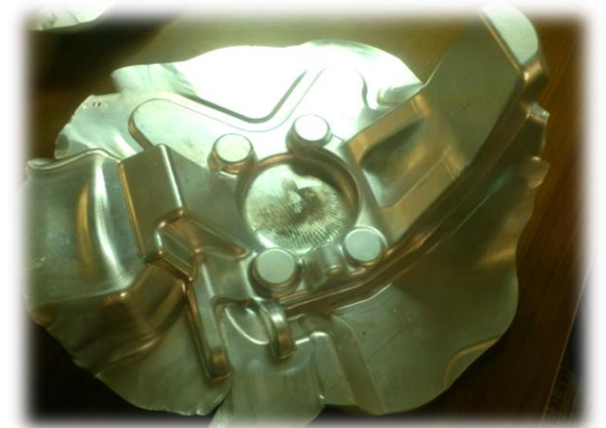
Analysis will be done if needed to
evaluate the stress distribution



3. Forging process CAE analysis
(3D DEFORM)



4. Mold fabrication



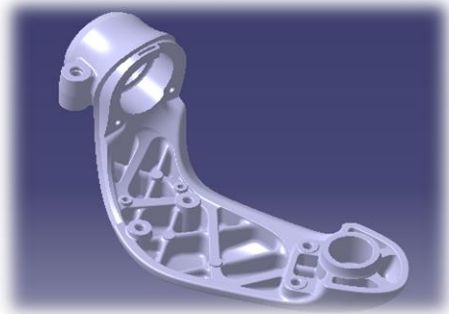
5. Blank production trial

Product Development- Al Casting to Al Forging (1/2)

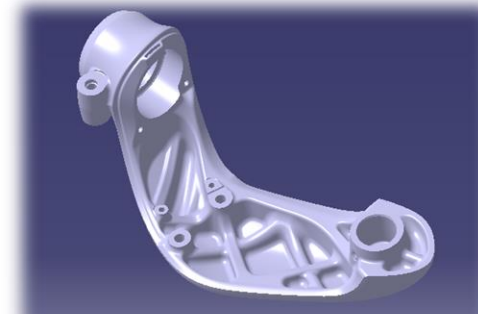


Example 1

- Original OEM design require light weight with excellent surface quality
 - Al Casting + Machining + Polishing + Powder Coating + Painting
- Surface quality defects were high due to casting problems
- Right Way successfully redesigned the part from Al Casting to Al Forging
 - Not only was the surface defect rate significantly reduced; overall weight was reduced by 7% and tensile strength saw a 20% increase



Before
Casting 1.916kg
A356 T6
Material Tensile Strength
284Mpa

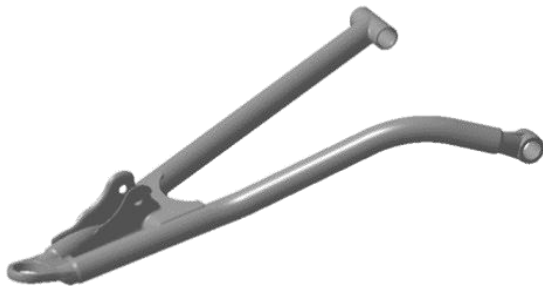
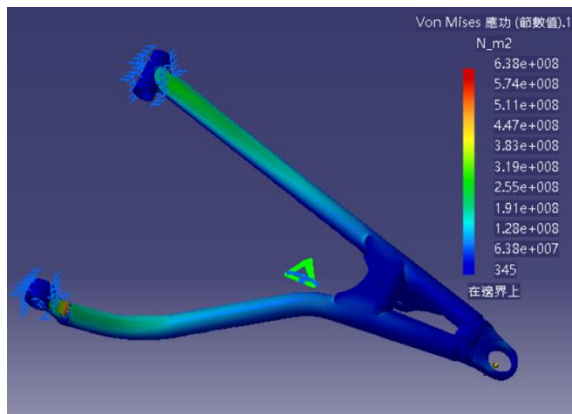


After
Forging 1.782kg
6061 T6
Material Tensile Strength
310Mpa

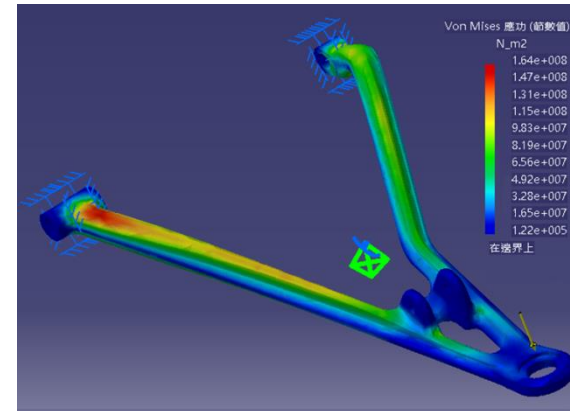
Example 2

- Original OEM called for a welded steel structure
- Right Way successfully re-engineered the part to Al Forging
 - As a result, there was a 10% weight reduction with a 36% strength increase

Welded Steel Structure



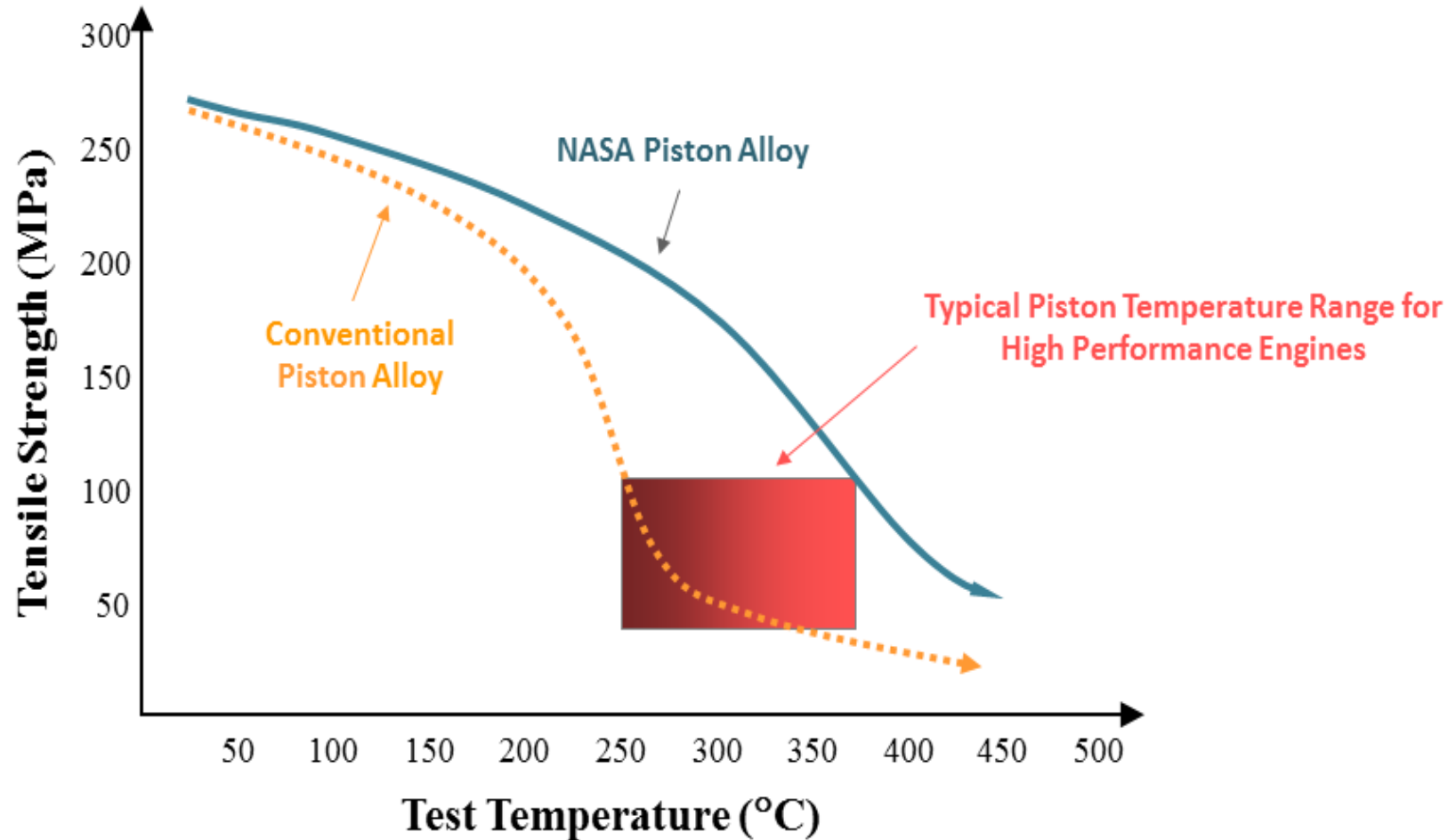
Aluminum Forging



Innovation (1/3)- High Performance NASA Alloy Pistons



- Developed by NASA (USA) for greater strength at high temperatures
- Casted NASA alloy pistons are stronger than conventional forged pistons



Innovation (2/3)- Applications of NASA Alloy Pistons



- Right Way is the only authorized manufacturer outside of the United States; and the only manufacturer to successfully mass produce with the alloys
- Currently produce over 200,000 NASA alloy pistons each year in the following applications:



125cc Air-Cooled Scooter
Pistons



Turbo Charged SUV
Pistons



2-Stroke Outboard
Pistons



Watercraft Pistons
(Substitute for forged piston)



2-Stroke Snowmobile
Pistons



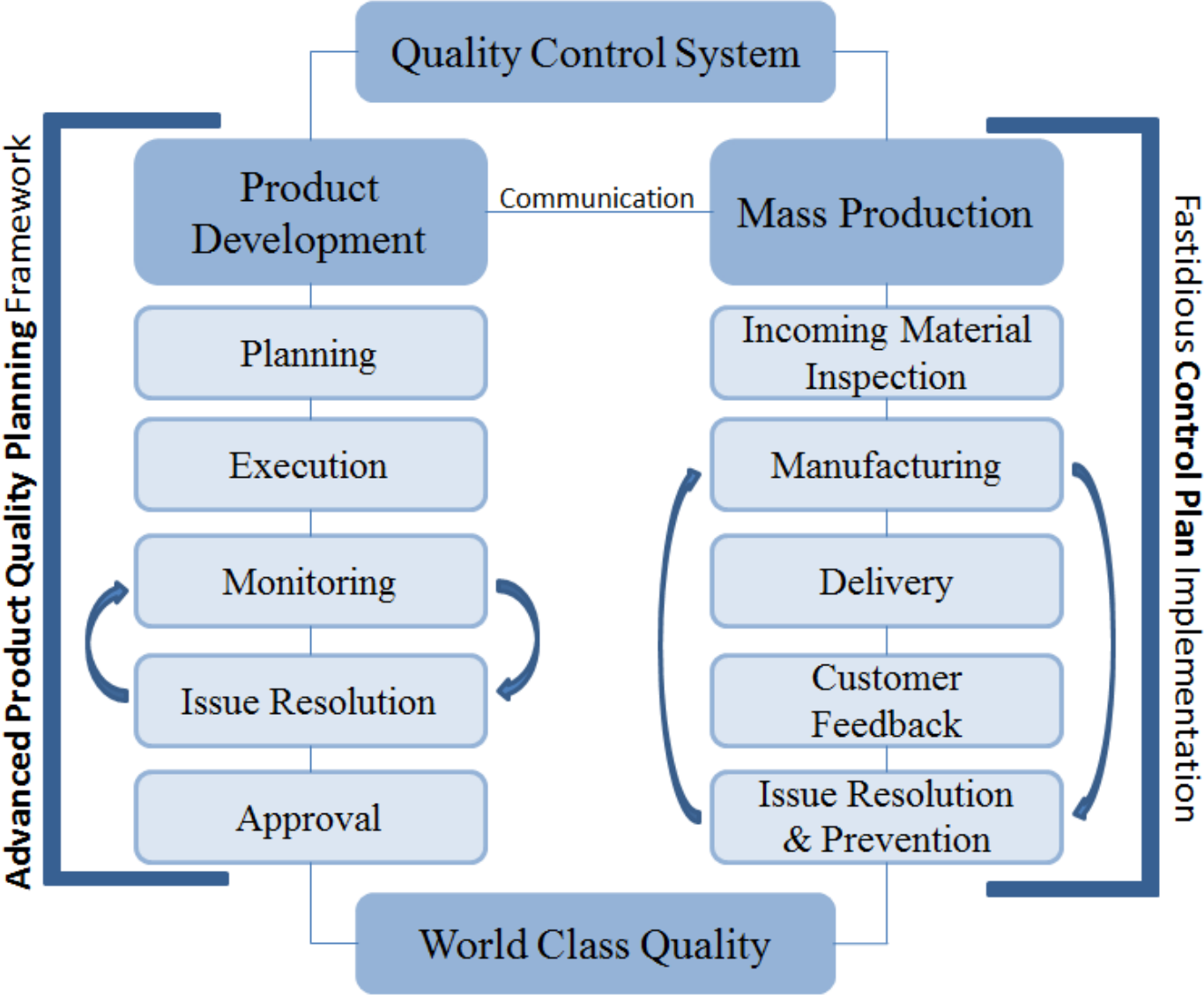
Sidecar
Pistons

Innovation (3/3)- High Performance NASA Alloy Pistons

NASA398 Aluminum Alloy Inducted into Space Technology Hall of Fame

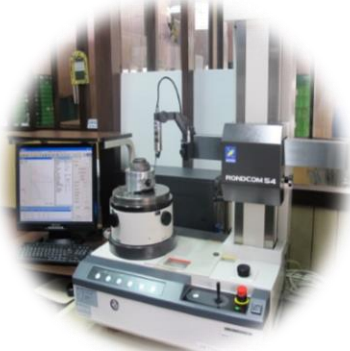


Quality Control Process



Quality Control Facilities



Spectrometer	X ray	CMM	Microscope
 SPECTROLAB (Germany)	 YXLON MU 2000 (Germany)	 MITSUTOYO (Japan)	 OLYMPUS (Japan)
Projector	Surface Roughness	Piston Profile Machine	Hardness Tester
 MITSUTOYO (Japan)	 MITSUTOYO (Japan)	 TOKYO SEIMITSU (Japan)	 MITSUTOYO (Japan)

- Blanks are tested in various ways to validate mold design and manufacturing process
- Testing runs according the manufacturing method and material:

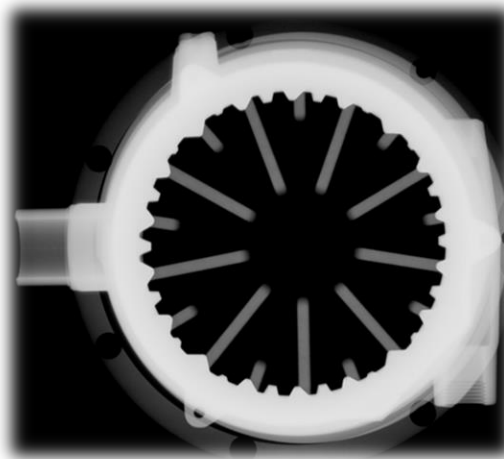
Aluminum Forging

Fluorescent liquid penetrant testing for crack detection



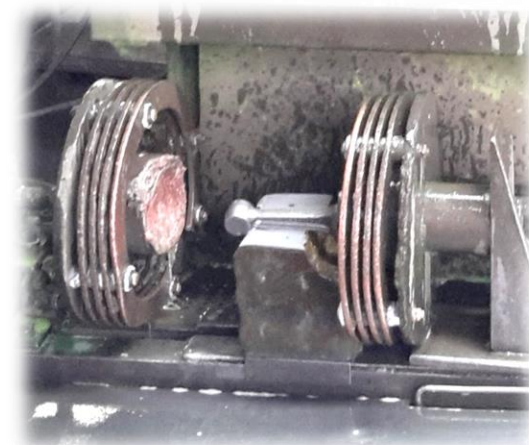
Aluminum Casting

X-ray analysis for internal porosity and structural integrity



Steel Forging

Magnetic particle inspection for grain flow dynamics



Certificate & Quality Awards



IATF 16949



ISO 14001



Arctic Cat Zero Defect Status



BRP Supplier Quality Award



Ford World Excellence Award

System Furniture- product idea

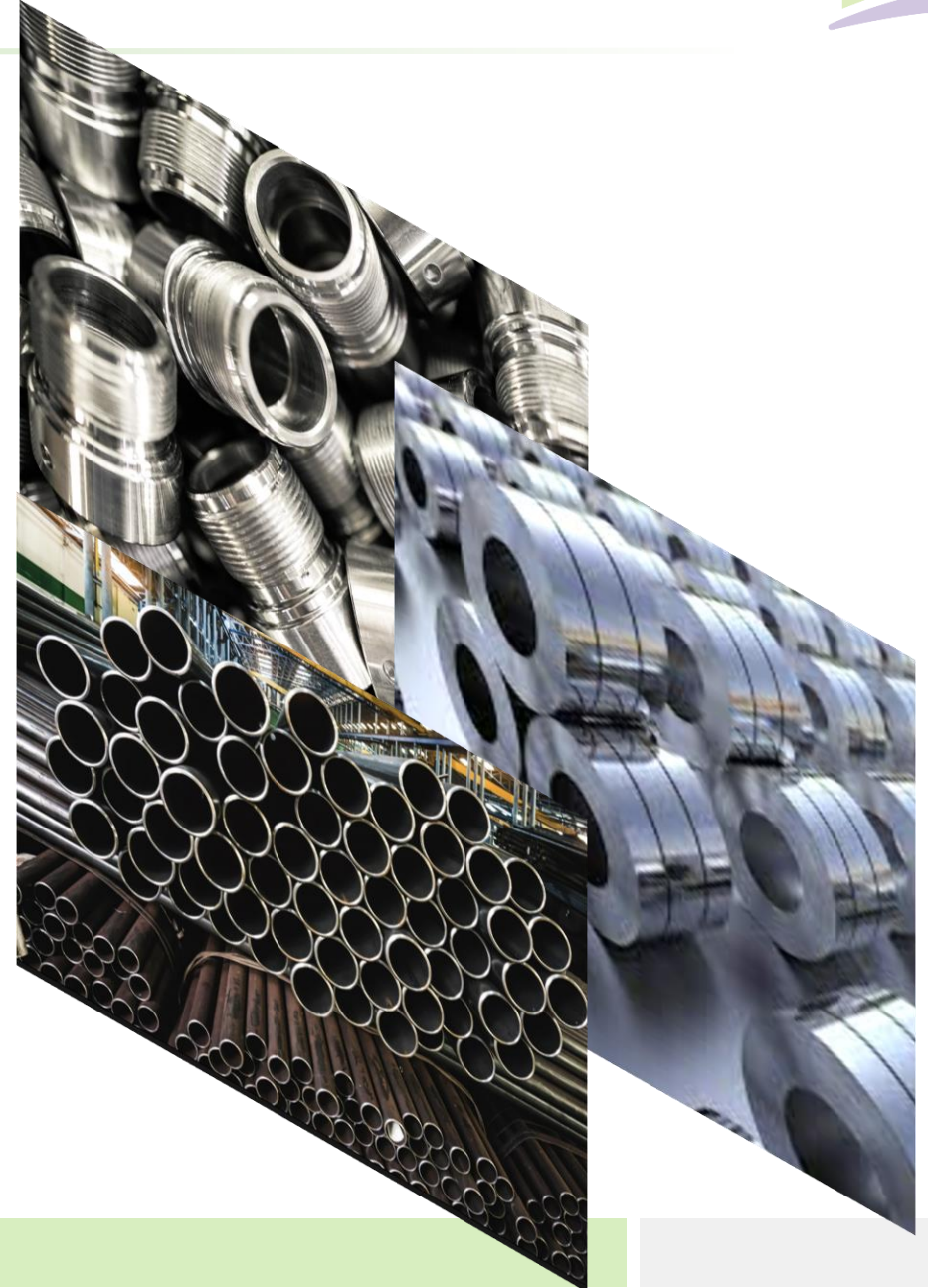


Resource circulation · Sustainable symbiosis

Origin of System Furniture Business



- In the first half of 2022, TA CHEN STAINLESS PIPE CO., LTD. invested in RIGHT WAY INDUSTRIAL CO.,LTD. and cooperated with Ta Chen Lung Mei Home Life Co., Ltd. to provide home design services such as curtains, blinds, system furniture, interior decoration, and electrical appliances, and to establish a manufacturing base for system furniture in RIGHT WAY INDUSTRIAL CO.,LTD..
- TA CHEN STAINLESS PIPE CO., LTD. also invited related manufacturers to invest in RIGHT WAY INDUSTRIAL CO.,LTD., and the construction of system furniture factory, equipment and staff training have been completed, and we start to develop the market in the second half of 2023. RIGHT WAY INDUSTRIAL CO.,LTD. provides all aspects of system furniture needed for home and office decoration which include various types of door panels and cabinets to satisfy customers' needs.



System Furniture-Product Applications



Differences between traditional woodwork and system furniture construction



Traditional wood painting and decoration methods

Formaldehyde emission
concentration average
concentration of volatile
organic matter suspended
particles
4 times



System furniture manufacturing method

System Furniture - Service Description



Processing with supplied materials

- The boards and edging strips are handled by the owner, and RIGHT WAY INDUSTRIAL CO.,LTD. is responsible for dismantling, cutting, drilling and edging .

Processing imported materials

- The boards, edging strips , removal of material and drilling of holes are all handled by RIGHT WAY INDUSTRIAL CO.,LTD..

One-stop service

- Owners only need to provide drawings, and RIGHT WAY INDUSTRIAL CO.,LTD.. will be responsible for arranging personnel to go to the site to measure and complete the installation of the system cabinet.

System Furniture – One-Stop Service



**Quotation
service**



**Design &
measurement &
place order**



**Factory
Processing**



**Master
Installation**



**Completion
acceptance**

**Provide the budget table
according to the chart &
Quote Reference .**

**Draw the system order
according to the designer's
drawing & Construction
drawings .**

**RW Company System
Cabinetry Division
Integrates Industry System
Processing , the only and
most complete system
processing plant in Taiwan .**

**Professional field
installation experience
construction technology
quality assurance**

**Do well , no sloppy
acceptance , one-stop
service , to give you
peace of mind.**

**RW Company Featured : 1 . Provision of design services
2 . Own Installation team**

System Furniture –Various Boards

Board Type	Color Quantity
Skin-feeling - MR & PR	20
EGGER	104
JM	25
Foam board	7
Crystal door panel	25
Crystallized piano paint	21
TOTAL	202



System Furniture – Superior Technology



- 4E Door Panel
- Shutter : Shutter / Arc Shutter
- Frame door panel : Ordinary/**Fine frame**/Stereoscopic/**Retro**/Country style
- Glass frame door panel /Glass frame grille door panel
- Spliced door panels: Ordinary / Frame type
- Frame type hole mesh door panel/ Frame type honeycomb mesh door panel
- **Rattan door panel : Frame type / Semicircular / Arc type**
- **Grille door panel / Grille siding / Ceiling / Grille breathable door panel / Arc shuttered grille**

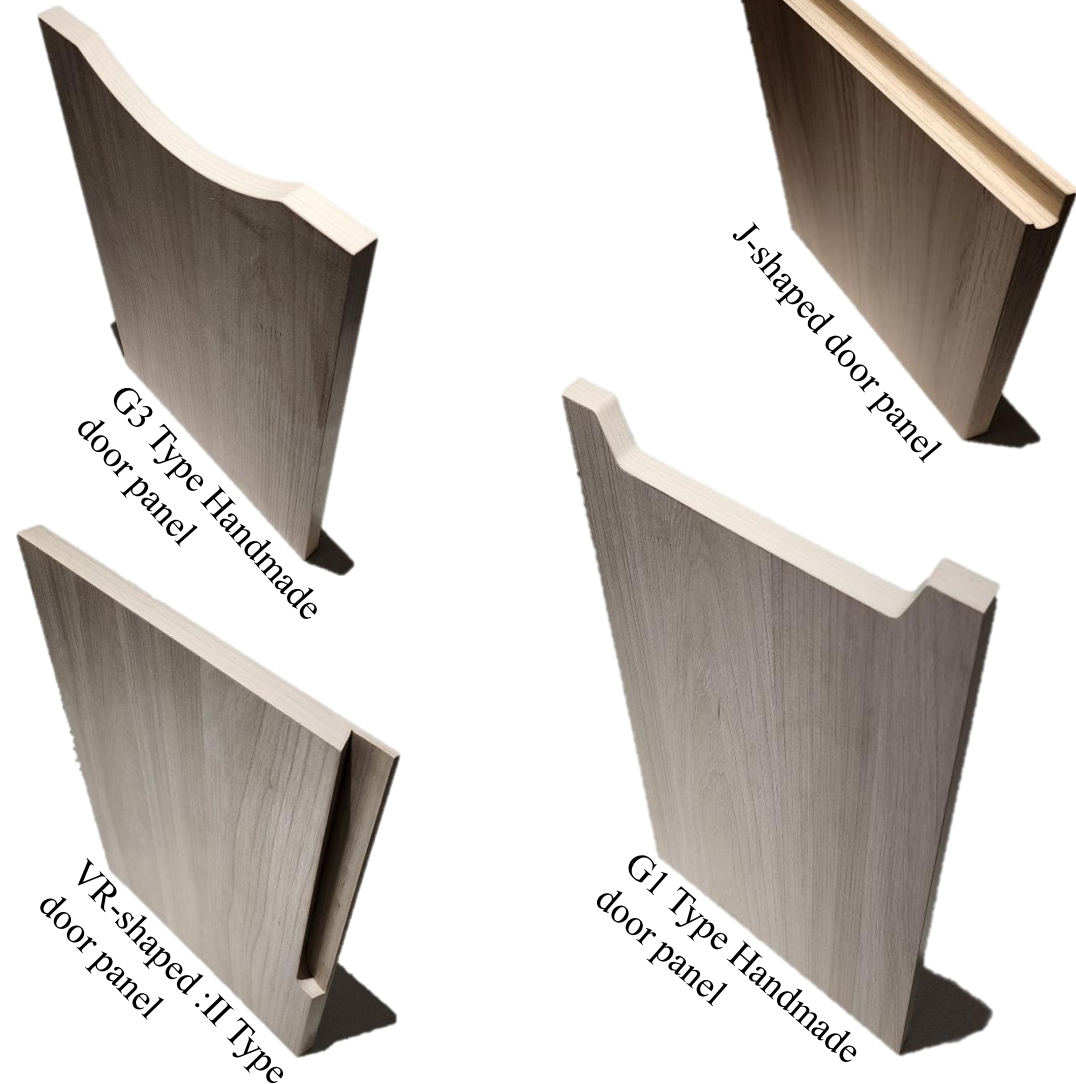


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System Furniture - Introduction to styling door panel handles



- Slant back door panel
- Slant back S-shaped door panel
- U-shaped door panel
- **J-shaped door panel**
- VR-shaped door panel:I.II.U Type
- VV-shaped door panel
- G1~G11 type door panel

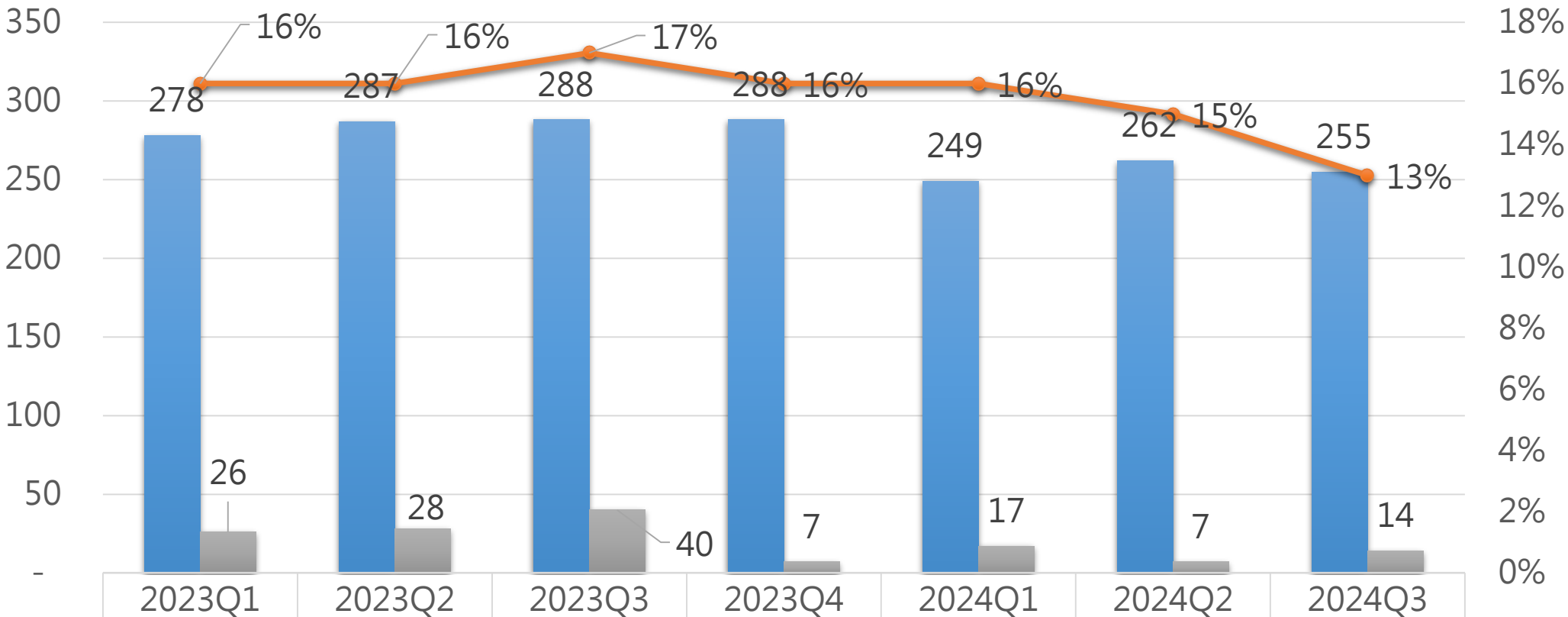


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Financial Results



單位:NT\$M;%



Revenue	278	287	288	288	249	262	255
Profit Before Tax	26	28	40	7	17	7	14
Gross Margin	16%	16%	17%	16%	16%	15%	13%



Thank you!