



TOPKEY
Excellence in Composites

Stock Code - 4536

- About Topkey
- Core Competence
- Topkey Business group
- New Business
- CSR

TOPKEY CORPORATION

Chairman : Walter Shen

Vice Chairman : Tony Chu

President : Beryl Shen

Staff : 285 (Topkey Group 6,484 people)

Established on : 1980/07/11 <38 years>

Capital : NT\$ 908.2 Million

Address : 18.20th Road, Industrial Park

Taichung, Taiwan, R.O.C.40850

Topkey Group



1980

TAIWAN, ROC

TOPKEY CORPORATION



1988

XIAMEN, CHINA

KEENTECH COMPOSITE TECH.
CO., LTD XING LIN PLANT



1995

SEATTLE, USA

Composite Solutions Corporation



1999

XIAMEN, CHINA

YEU CHUAN COMPOSITE
TECHNOLOGY CO., LTD



2000

XIAMEN, CHINA

XIN HONG ZHOU PRECISION
TECHNOLOGY CO., LTD



2004

XIAMEN, CHINA

VALVER COLOR
STICKER CO., LTD

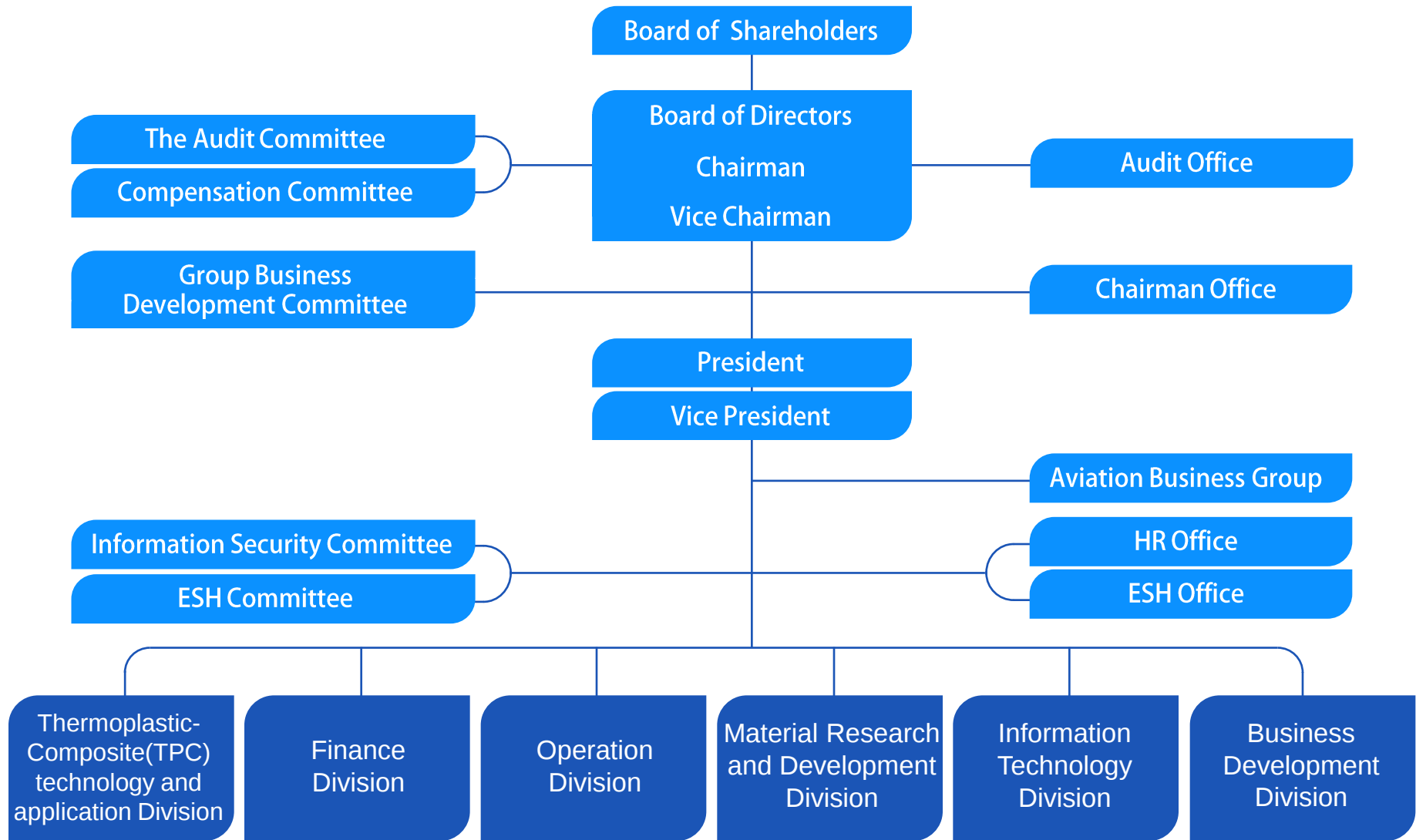


2007

XIAMEN, CHINA

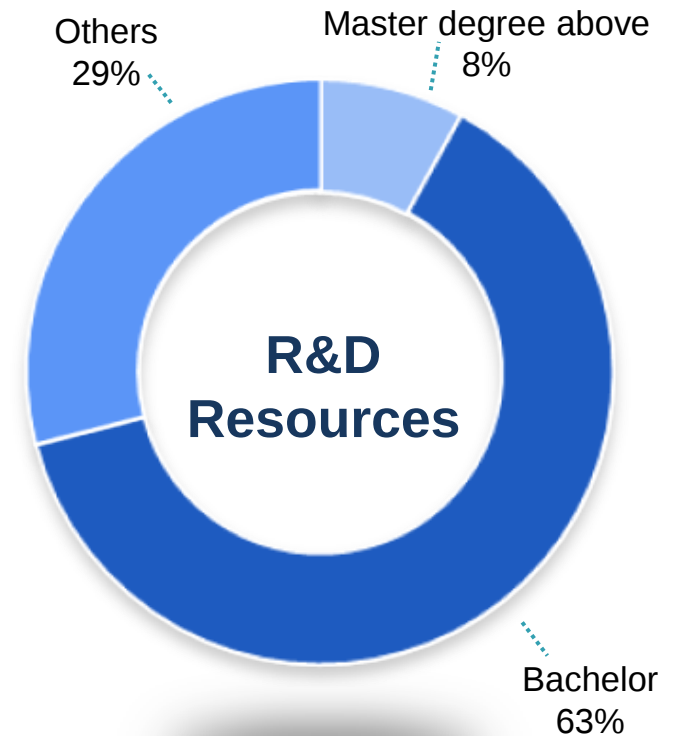
KEENTECH COMPOSITE
TECH. CO., LTD HOU XI PLANT

Topkey Group Organization Chart



Topkey Group Manpower Analysis

Unit	Business	Headcount	R&D Personnel	
			Research manpower	Develop manpower
TK	Composite	285	37	11
KT	Aviation, Medical Sporting goods	4,874	84	211
YC	Safety	624	25	51
XPT	Tool, VCM	417	9	27
YF	Water transfer printing	157	1	1
CSC	Aviation	127	4	8
Total		6,484	160 2.5%	309 4.7%



Total Headcount: 6,484 ,R&D personnel 469/ 7.2%

Topkey Group Composite Material Development

2018

Comprehensively emphasize in environmental protection material development and aviation material certification



2001

Production of Carbon fiber aircraft interior and medical relatives



1995

M&A Composite Solutions Corporation in Seattle , USA



1991

Production of carbon fiber Bicycle frame and Helmet



1980

Production of carbon fiber Racket



Diversification of Products and Industries

CFRP (Carbon-Fiber Rein-enforce Polymer) as the core material ,
Six industries in terms of scale and technology are leader of the industry.

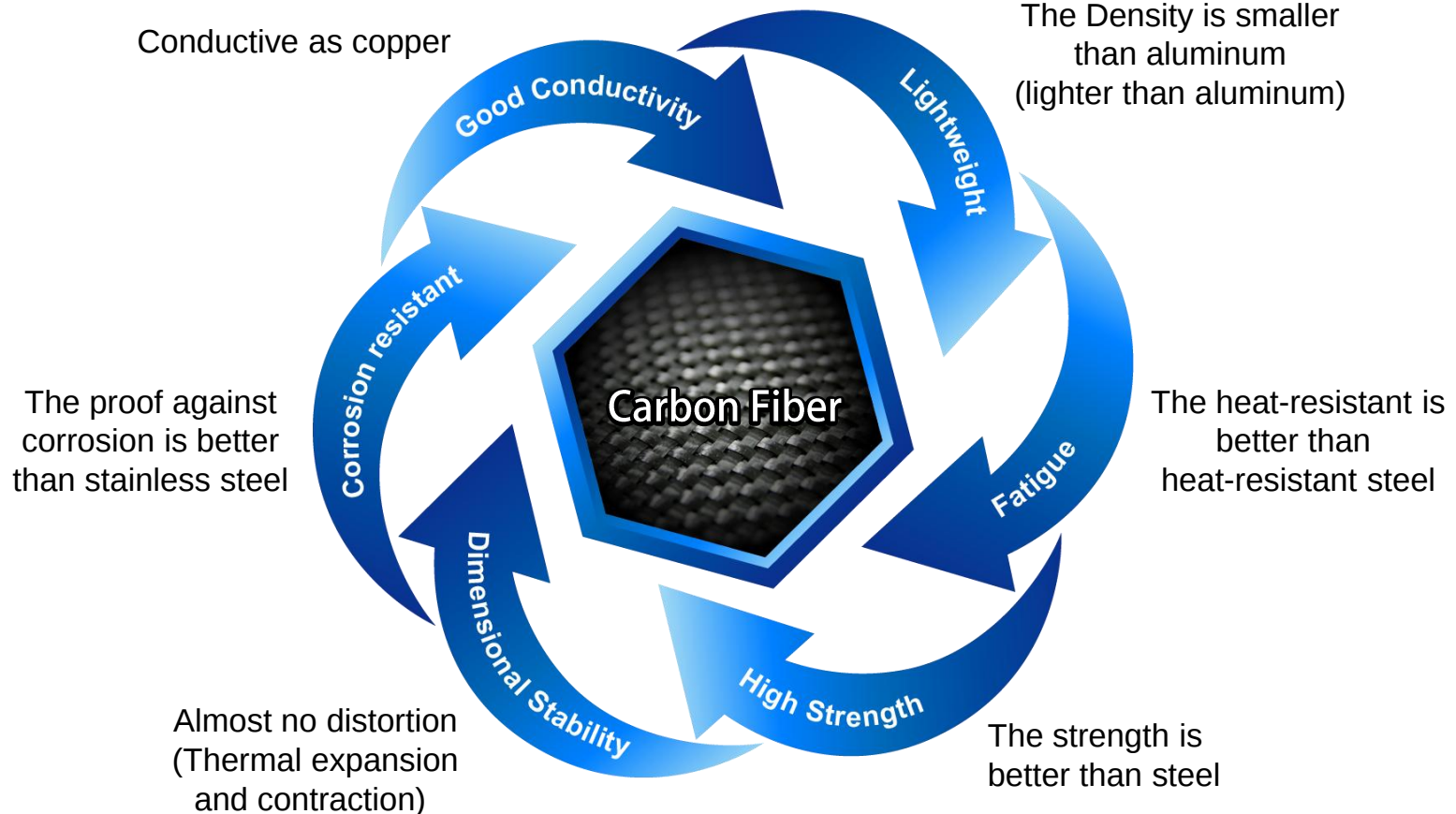


**GLOBAL
LEADER**



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The Characteristics of Carbon Fiber



Superior

Electricity Properties + Thermology Properties + Mechanics Properties

There is no other material possess so many superior properties.

Quality-Qualification & Certification



AS9100D/14001-TK



ISO9001/AS9100D/14001-KT



NADCAP/ISO9001/TAF-TK

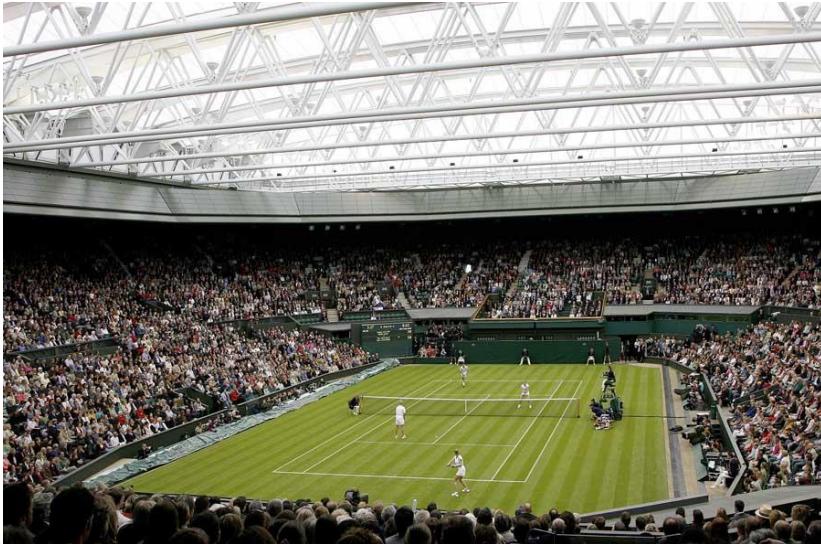


NADCAP/AS9100B-CSC

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RACKETS & SPORTS

- Annual Production Capacity 1.2 Millions.
- World's Largest OEM Composite Racket Supplier.
- 40% Seed Player Selected Rackets.



BIKE PRODUCTS

- Annual Production Capacity 300,000 sets.
- Seven pro-teams Selected Bikes.
- Tour de France and Tour of Spain Champion, 2014.
- 2016 Girod'Italia Bicycle race Champion.



S-WORKS TURBO LEVO



SAFETY

- Year capacity 1.3 Millions.
- First design of carbon fiber helmet(1995).
- Lightest helmet (950g) in the world and meets EC standard(2008).
- AGV won 2017 Motor GP (Moto3) Champion.



MEDICAL

- Niche Market (Slope). Sole Source Supplier.
- World's leading Slope, Table Top & Accessories for MRI/CT.



AVIATION - Cabin Interior

Business class with economy class

- Lufthansa
- Air Berlin
- JAL
- ANA
- United Airline
- Fly Dubai
- Singapore Airline
- Cathay Pacific
- TACA
- TAM



AVIATION - Aircraft Substructure

- Honda Jet Structural component Parts
- Tail Boom Assemblies for MD900, MD600N, MD520N
- Black Hawk, S-92 (Sikorsky)
- BA-609 (Bell/Agusta)



AVIATION PRODUCTS



C-17 Lavatory (MD)

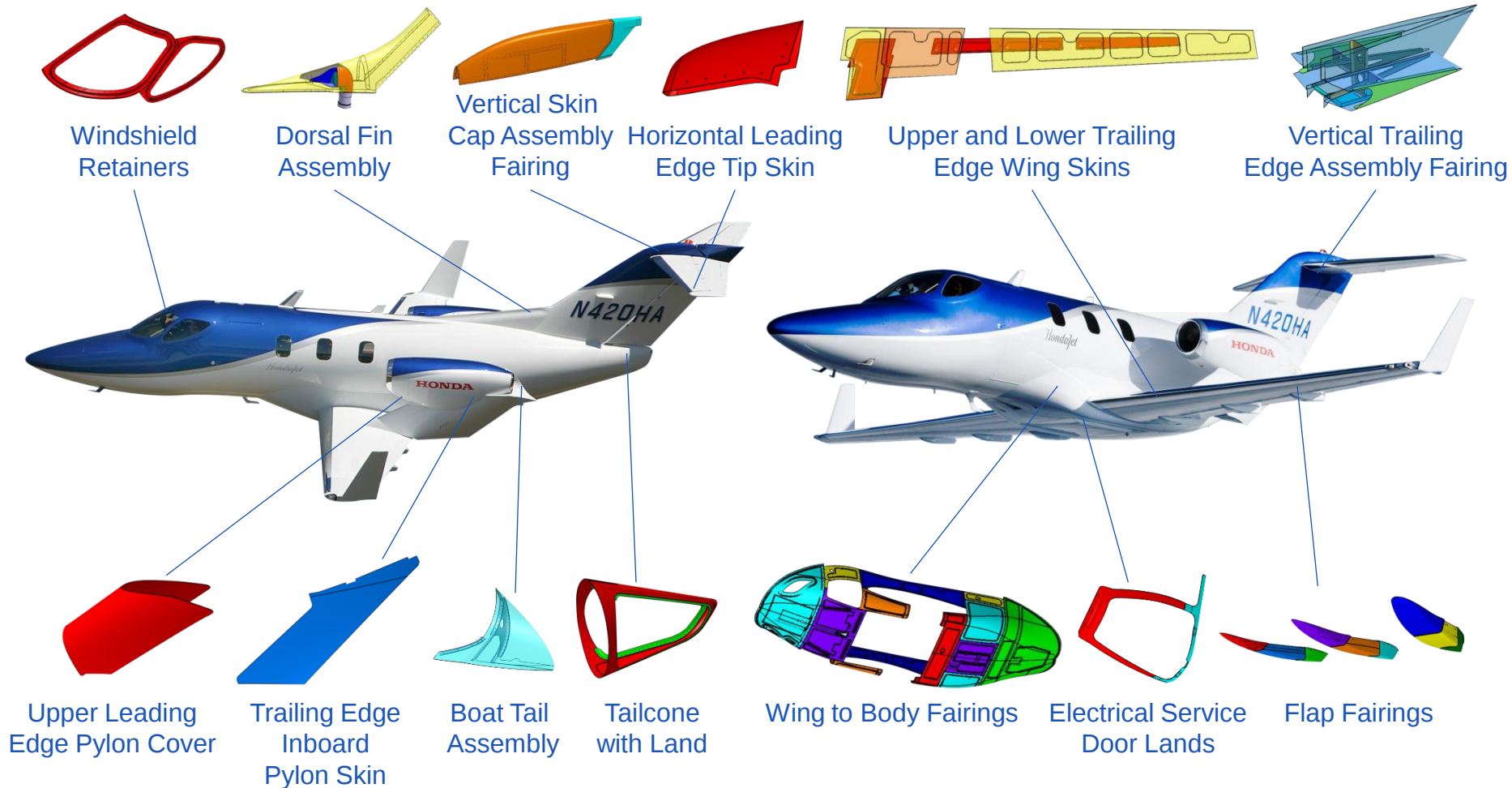
Designed and Tested by CSC for :

- Design Loads
- Shock and Vibration
- Environmental Criteria
- Flammability

AVIATION PRODUCTS

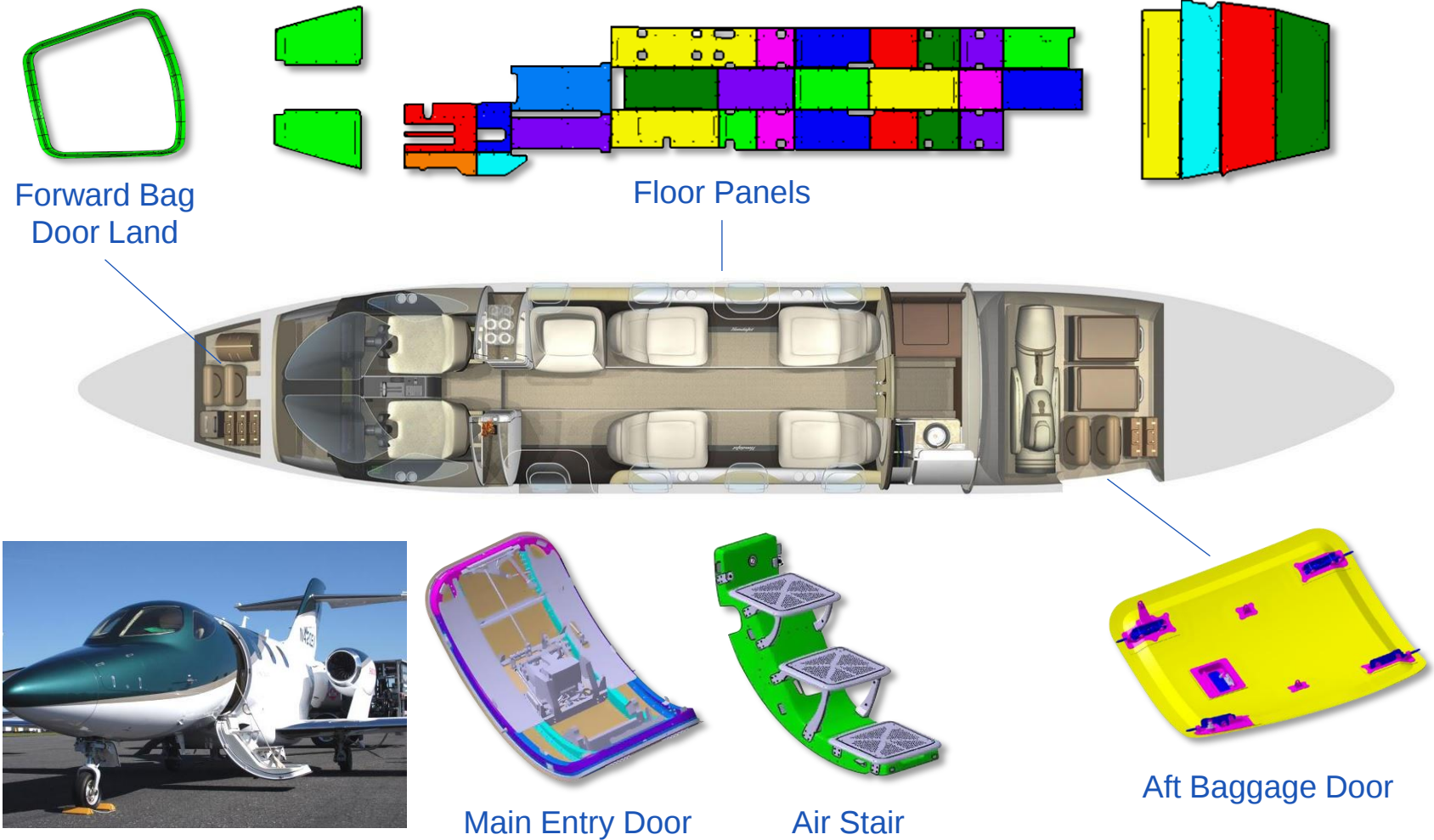
Honda Jet Structural component Parts

Honda Jet has passed FAA Certificate in 2016 and CSC started to produce around 70 parts. Right now, CSC ships 4 set monthly.



AVIATION PRODUCTS

Honda Jet Structural component Parts



AVIATION PRODUCTS

- Tail Boom Assemblies for
MD900 、MD600N 、MD520N
- Includes:
 - Tail Boom Assembly
 - Horizontal Stabilizer Assy
 - Thruster / Rotating Cone Assy
 - Vertical Stabilizers (MD900)
- Graphite/Epoxy Honeycomb
Primary Structures
- Delivered as Entire Shipsets
Ready for Installation



AVIATION PRODUCTS



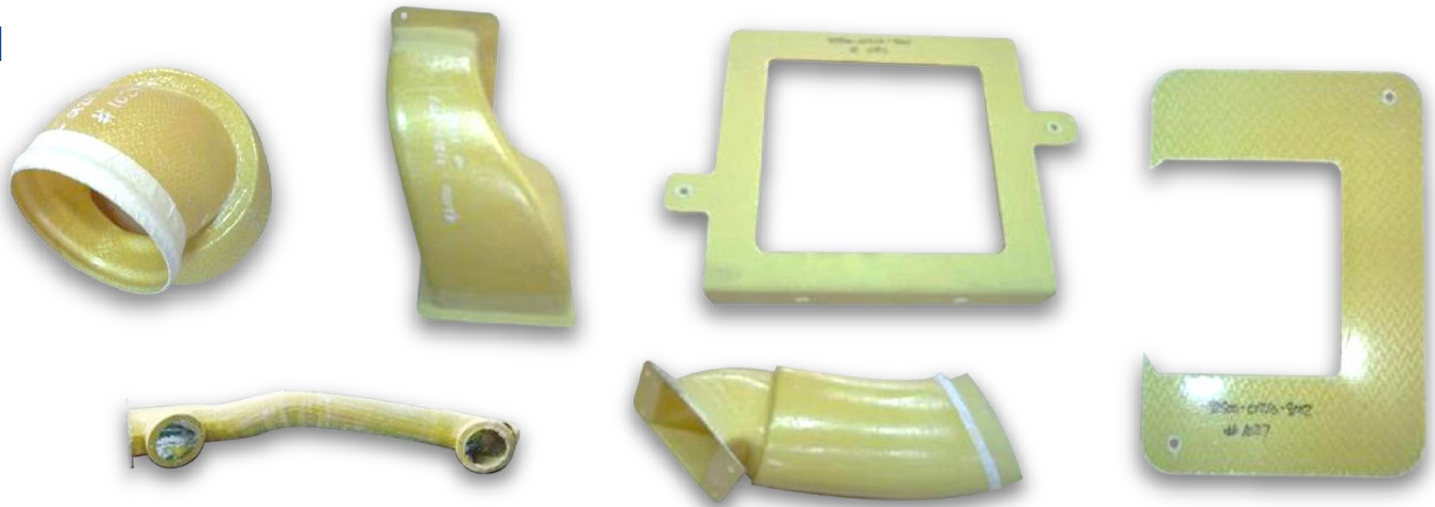
- **Black Hawk**
Draft Shaft Housing
Curing Mold/Tooling Mold



AVIATION PRODUCTS



- **S-92 (Sikorsky)**
Air Conditioning Duct
Plaster Mold



TP Composites Introduction

- Topkey has built 2 million M2 output production line.
- Topkey has developed 5 engineering plastic formulations and advanced engineering plastic formulations which were used in aviation almost complete.
- Leading industry with deep drawing fusion technology and one-time composite structure technology.

TP composite used in product design or most applied projects as follows:



Aerospace

- Aerial inside decoration
- Aerial structure or trailer



AUTO

- Car high temperature structure
- Car high attack parts and structure
- Car inside structure and decoration



3C & Others

- Consumer electronic structure, such like Laptop , Tablet , Smart Phone , and VR
- Sports equipment parts
- Consumer products impact resistance structure
- Safety and protective parts

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New Business - Aviation



- Giant commercial aircraft tail parts.

New Business - Aviation

- Giant commercial aircraft interior material and parts.
- Giant commercial aircraft Business class seats.



New Business - Aviation

- Composite material will be used on commercial Aircraft Dinner car



New Business - Medical Devices

Exoskeleton Robot



Exoskeleton Robot Suit

Designed for military , service or construction use

Applications

Carry heavy loads , dangerous Environments and accident-prone work



Lower-Limb Type

The elderly , spinal cord Injury(SCI) patients

Applications

Not only give basic capacity such as walking , sitting-to standing motions also reduce leg loads for taking device accessories



Upper-Limb Type

Weakened arm muscles or has been amputated or loss arms people

Applications

Providing the user to feed by themselves and basic living skills

New Business - 3C Products

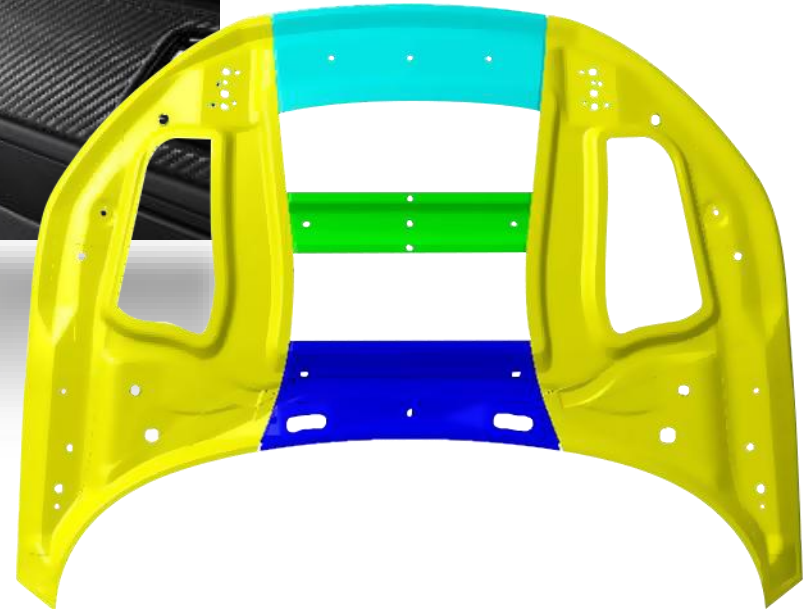


- Application in laptop, tablet and Phone case.
- Recently many products have entered the brand development certification stage.

New Business - Auto

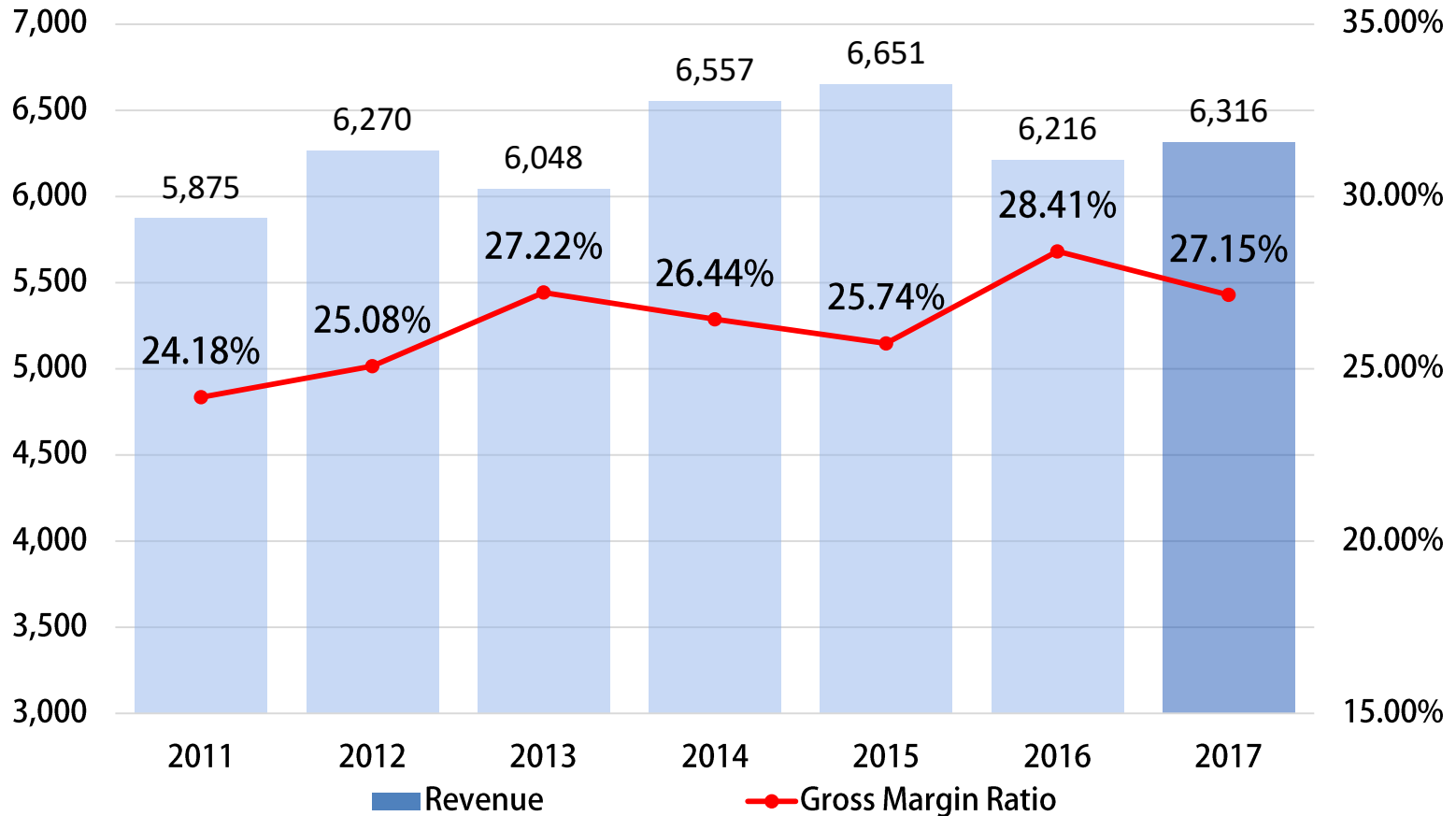


- Used in the car body structure and plate reinforcement.
- Currently working with a lots of depots design and development.



Topkey Group-Revenue & Gross Margin Ratio

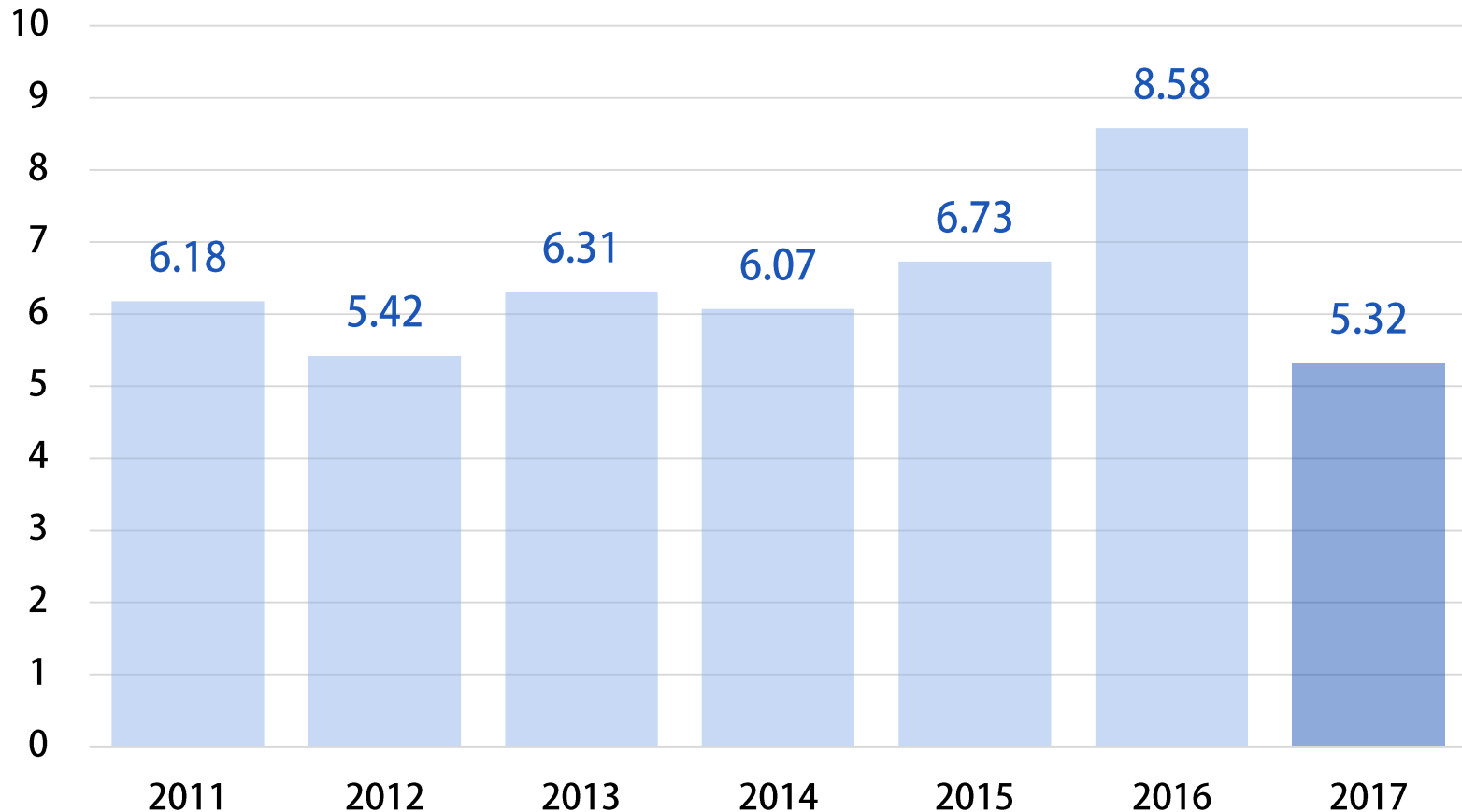
Unit : NT\$ Million



Note : 2011 ROC GAPP ; 2012~2017 IFRS ◦

TOPKEY GROUP - After-Tax EPS

Unit : New Taiwan Dollars



Note : 2011 ROC GAPP ; 2012~2017 IFRS ◦

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Topkey Group Topkey Family. We Care.

Employees as important assets---
to fill their life rich and diversified increasing their humanistic literacy.

Growing Healthily

Regularly we hold sport competitions and activities.
By participating sport competitions and club activities,
to balance the staffs' physical, mental, job and family perfectly.



Corporate Social Responsibilities-Social care

From the beginning...

- In order to practice corporate social responsibility ,TOPKEY Corporation , through the establishment of TOPKEY Education Foundation , invited Taichung area enterprises that interested in social responsibility , as enterprises volunteer , to contribute the community with social welfare organizations.
- As a promoter of corporate volunteer , every year TOPKEY Education Foundation participates Tai-Chung corporate volunteer day and invites all enterprises to join. During the Autumn is gone and the Winter is coming , through the service of children , the elderly , younger , women , new residents , aboriginals , physical and mental disabilities and other ethic groups , in the day with sweat and smile , irrigation heart and nourishing life , making a year of volunteer service results to harvest and collection.



Corporate Social Responsibilities-Social care

2013-2017 Tai-Chung corporate volunteer day

2017/12/02 Civic Plaza

- 60 companies · 850 volunteers
- 43 Social welfare organizations, 830 service objects
- 46 park tour booth · 300 volunteers
- Total 2,000 participants



2015/11/07 Civic Plaza

- 44 companies, 1,200 volunteers
- 35 public interest proposal, 990 service objects
- Total 2,000 participants

2016/11/26 Civic Plaza

- 28 companies, 600 volunteers
- 26 Social welfare organizations, 600 service objects
- 115 park tour booth, 800 volunteers
- Total 2,100 participants

2013/11/09 Charlotte Park

- 33 companies, 794 volunteers
- 25 Social welfare organizations, 861 service objects
- Total 1,655 participants

2014/11/08 Civic Plaza

- 37 companies, 821 volunteers
- 32 Social welfare organizations, 985 service objects
- Total 1,806 participants

Corporate Social Responsibilities-Social care



CSC , one of subsidiaries of TOPKEY in Seattle USA-
Caring for homeless dinner party

THANK YOU

For more information, please visit our website:
<http://www.topkey.com.tw>

