



COMPANY INTRODUCTION

COMPUTER,
COMMUNICATION &
CULTURE

COMPANY INTRODUCTION

CONTENTS

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Chapter **II** • **Products**

Chapter **III** • **Technology
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A decorative graphic on the left side of the page. It consists of a large, thick red letter 'I' centered within a circular path. The path is formed by two concentric arcs: an inner red arc and an outer grey arc. Small white circles are placed at the top and bottom of the grey arc, and small grey circles are placed at the top and bottom of the red arc. The word "Chapter" is written in a red, sans-serif font above the letter 'I'.

Chapter

I

About Us

- 01 • **Company Overview**
- 02 • **History**
- 03 • **Organization**
- 04 • **Volume of company**
- 05 • **Global Network**
- 06 • **Affiliates**

01 · Company Overview



“ We provide optimal solutions for our customers in the thermal management area based on our **wiring harness assembly business** with world-class quality and technical competitiveness. ”



CEO |

Chang Soon, Hwang

Establishment in

July 1, 1983

Capital

KRW 2.54b

Business Area

Manufacture of wiring harness assemblies, distribution of electrical and electronic components., research on thermal solution

Main Products

MCX, Probe Cable assembly, Automotive Connectors, Cable, DMC Tool

Number of Employees

151

Website

www.tae-yang.co.kr

HQ

Hongcheon

Factories

Hongcheon, Nanjing (China)

Offices

Seoul, Gimhae, Vermont (US), New Delhi (India), Suzhou (China)

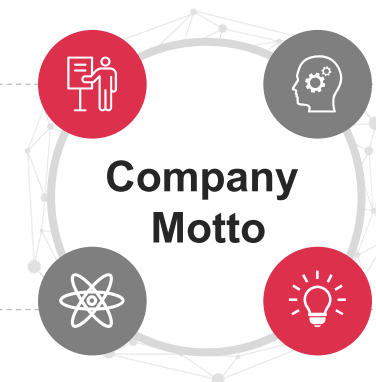
LOCATIONS

Diligence

Digital Transformation

Frontier Spirit

Creation



02 · History



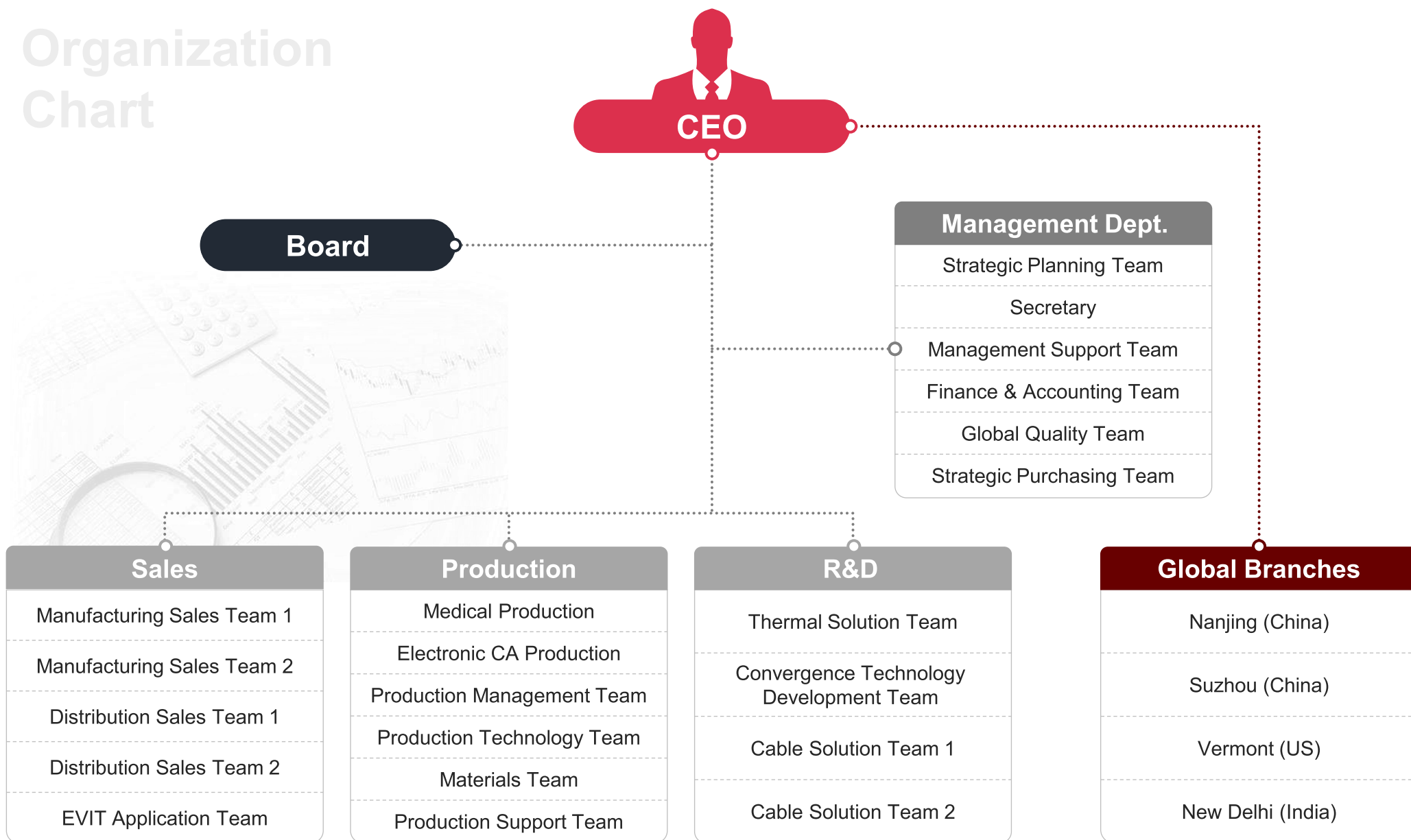
I . About Us



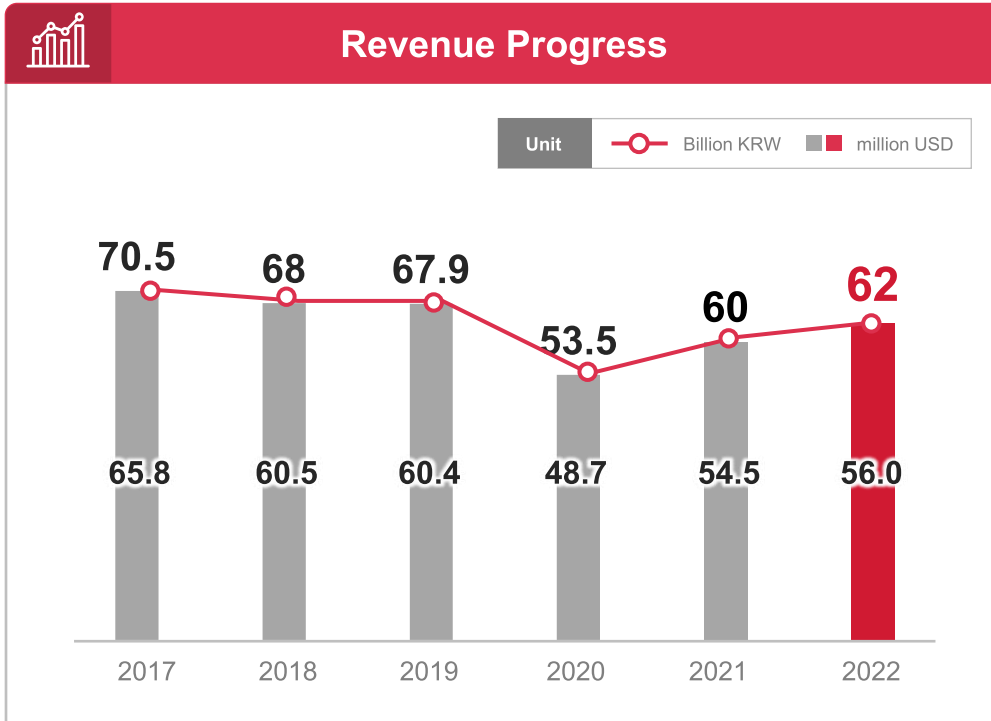
03 · Organization Chart



Organization Chart



04 • Volume of company

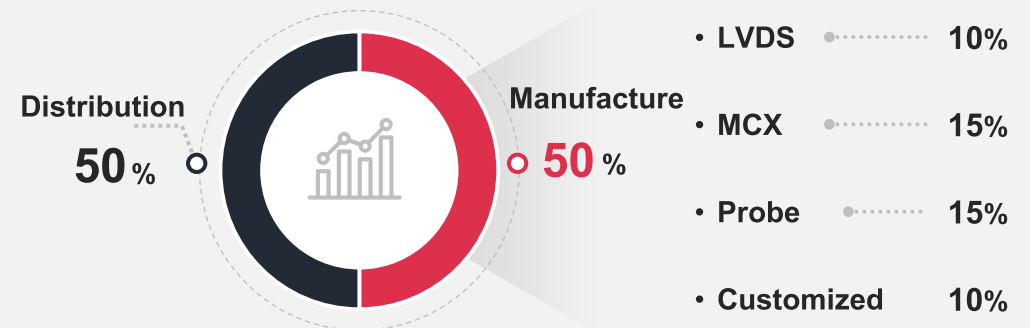


Capabilities

Category	Product/Item	Quantity
Products	LVDS Assemblies	2,000,000 EA/year
	MCX Assemblies	2,000,000 EA/year
	FFC Assemblies	2,000,000 EA/year
	Probe Cable Assemblies	100,000 EA/year
	Customized Assemblies	Order QTY
Goods	DMC TOOL	Order QTY
	Marking Machine	Order QTY
	Fiber Optics	Order QTY
	Wiring Harness Connectors	Order QTY

Sales Structure

- LVDS Assemblies 10%
- MCX Assemblies 15%
- Probe Cable Assemblies 15%
- Customized Assemblies 10%
- Wiring Harness Connectors 45%
- DMC Tool etc. 5%





Manufacturing Factories



Land area
7,263.8㎡

23-18, Nonggongdanji-gil,
Hongcheon-eup,
Hongcheon-gun, Gangwon-do

Building area
5,071.7 ㎡



Land area
10,952 ㎡

23-21, Nonggongdanji-gil,
Hongcheon-eup,
Hongcheon-gun, Gangwon-do

Building area
1,188 ㎡



Block A, No.22, North Liuzhou Road,
High Tech Development Zone, Pukou,
Nanjing, China NanJing HanQiang

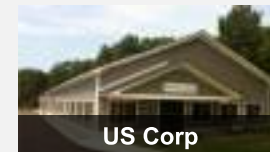
Offices



49, Magokjungang 12-ro,
Gangseo-gu, Seoul
3C TAEYANG Magok R&D center



45-14, Yuha-ro, Gimhae-si,
Gyeongsangnam-do
(also serving as a warehouse)



8 Ewing Place Suite C
Essex Jct. VT 05452,
USA MWTS Inc.
(also serving as a production facility)



Plot No. 76 D, UdyogVihar Phase - 4,
Sector -18, Gurugram, Gurgaon,
Haryana, India, 122001



Room 2315 Lejia Building,
Xiandai Avenue Xinghu Street
Crossing, SIP, Jiangsu
Province

“ We dedicate to ensuring that each customer receives professional and personalized support, every step of the way ”

Tae Yang Terminal Co., Ltd.



Tae Yang Terminal Co., Ltd. is a professional distributor specializing in KET products as a KET Busan Gyeongnam agency, and handles other electronic products.

Merit is a professional office machinery vendor specializing in binders, coaters, shredders, and time clocks based on excellent experience in office machinery and rigorous follow-up management.

Quintech, established in 1999, is a company specializing in the development of molds and equipment for semiconductor BEOL.



ITEM

- KET products
- Various electronic products

ITEM

- Binder
- Coater
- Paper shredder
- Bill counter
- Puncher
- Bill binder
- Time clock
- Watchman clock
- Locker
- Paper buffer maker
- Air cap (cushion) machine
- Consumables
- USB memory card
- USB memory stick
- Mother of pearl USB memory
- OTG
- External Battery

ITEM

- Manual mold (semiconductor)
- Manual mold (LED)
- Auto mold
- Auto frame Loader
- Trim/form Tool conversion kit

Chapter

II

Products

Manufacturing Business

- 01 • **Ultrasound Probe Cable Harness**
- 02 • **Display Cable Harness for ICT**
- 03 • **Semiconductor Cable Harness**
- 04 • **Competitiveness in Manufacturing**

Distribution Business

- 01 • **Wiring Harness Connectors for Automobiles**
- 02 • **Cables and other Components**
- 03 • **DMC Tools & Marking Machines**
- 04 • **Competitiveness in Distribution**

“

”

In the field of ultrasonic imaging diagnostic devices, where ultra-precise image-guided technology is a chief driver, 3C Tae yang has produced **a wide-ranging of customized micro coaxial cables** that fulfill customer needs since 1996.



Applications

- ▶ Types 2D, 3D, 4D types ultrasound probe cable assemblies
- ▶ Cable for endoscopy
- ▶ Cable for patient monitoring systems



Technologies

- ▶ Micro coaxial cable AWG 36–48
- ▶ 50–110pF/m



Major Customers



“

We provide video signal transmission cables to **convey emotions beyond natural colors.**
We develop customized cables to meet diverse market demands.

”



Applications

- > LCD
- > TV
- > IP Camera
- > High speed cable vehicle, IT device and semiconductor equipment
- > CCTV
- > Electron microscope
- > VR/AR devices



Technologies

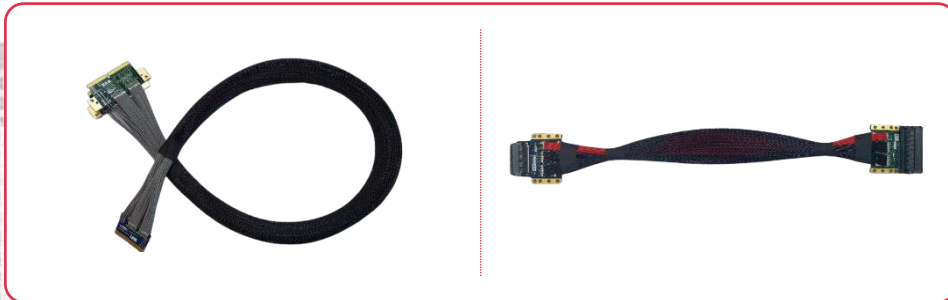
- > Micro coaxial cable assemblies in the range of AWG 40-46 range with 0.3-0.5mm pitch connector applied
- > Teflon jacket, micro wire assemblies in AWG 32-38



Major Customers

- LG Electronics
- Hanwha Techwin
- LG Display
- IDIS® One Solution. One Company.

“ At Tae Yang 3C, we supply high-quality **coaxial cable assemblies** that connect the probe holder and tester of semiconductor test handlers (inspection equipment). Our cables are designed to enable effective cost reduction while preserving optimal performance. ”



Applications

- Memory testers
- LCD driver test systems
- Mixed-signal testers



Technologies

- MCX assembly for semiconductor Inspection (soldering)



Major Customers

Uni Test

“ 3C Tae Yang has been the sole agency of Sumitomo Wiring System in Korea ”
for over 30 years, **distributing high-quality connectors** for automotive harnesses
in the automotive parts market



Product Line-up

We handle all products from Sumitomo, and also supply products from other manufacturers

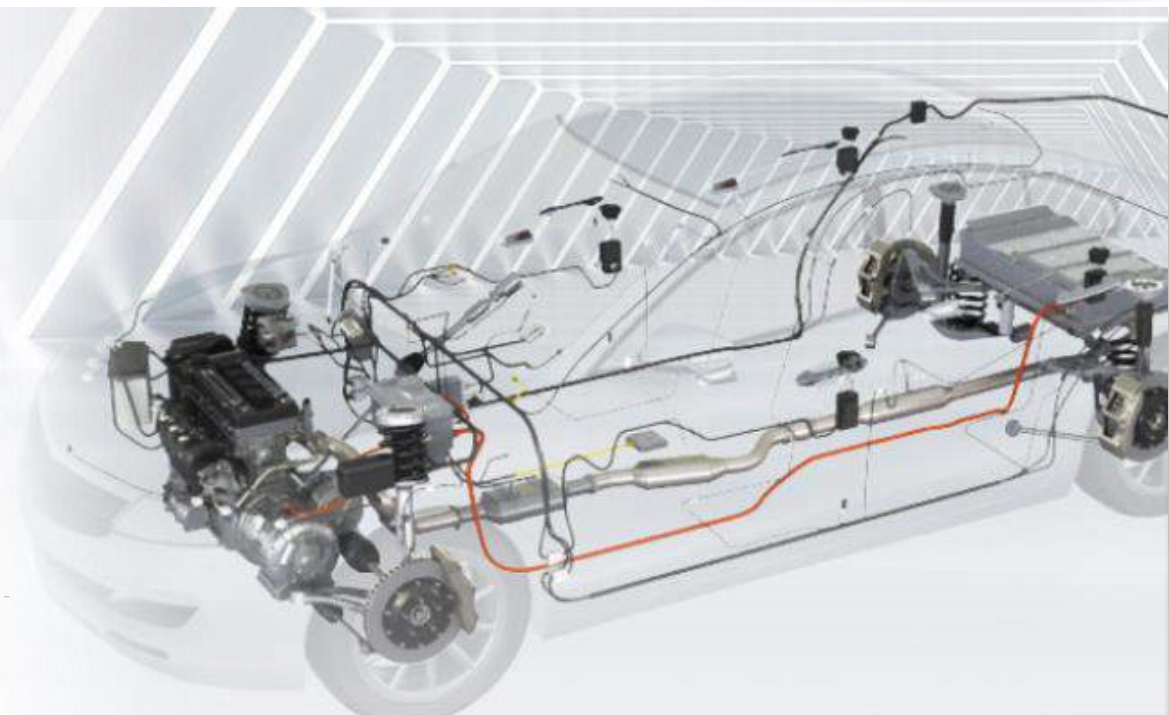


Major Customers

Tier 1 Customers

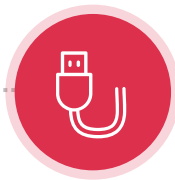


SSANGYONG MOTOR



“ As the **official agency for cables and tubes from Sumitomo Electric**, 3C Tae Yang provides cable and tube solutions for a variety of industries, including marine, electronics, and construction.”

Product Lineup



- Insulated wires
- High-voltage wires
- Spiral shielded wires
- Coaxial cables
- Automotive/device wires
- Electronic wires for mobile communication devices
- Plane components and related items
- High-speed communication cables

Applications

- Electric vehicle
- Air conditioner
- Data center
- Air purifier
- LED TV



01 As **DMC's official agency**, we supply hand tools and DMC Tool kits for repairing wire harnesses of tanks, airplanes, and helicopters in defense industry.



Applications

Major Customers

KAI KOREA AEROSPACE INDUSTRIES, LTD.	Hanwha Aerospace
Aviation MRO partner	Korean and foreign airlines

02 As an official agency of Japan's CTK, we provide efficient marking solutions for a variety of materials including wires, optical cables, connectors, cable ties, plastic moldings, plate sheets, etc.



Applications

Major Customers

Doosan Infracore	HYUNDAI HEAVY INDUSTRIES
	LSELECTRIC

04 • Competitiveness in Distribution



Keywords

Connectors for automotive electronics

Sumitomo World's top wires/connectors

Wiring harnesses

Distribution network for 38 years

Chapter

III

Technology Development

- 01 • About R&D center
- 02 • Achievements performance
- 03 • New Developments

R&D Center **Technology Lab**



Establishment in

2002



Location

49, Magokjungang 12-ro, Gangseo-gu,
Seoul, Republic of Korea



Number of researchers

10



Fields of development

- 1 R&D of thermal solutions and composition of functional materials
- 2 Special cable modules for medical devices
- 3 Display cable solutions
- 4 High-speed cable solutions for semiconductor test equipment
- 5 R&D of automotive IT module harnesses
- 6 R&D of image sensor camera cables
- 7 Image sensor camera applied medical devices

2 • Achievements from Technological Developments



01 R&D of thermal solutions and composition of functional materials

Provide customized thermal solutions through development thermal products	Composition of functional materials and distribution technology	Developed eco-friendly shading sheet using nanocarbon material
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02 Special cable modules for medical devices

MCX assemblies	#48 L/C cable processing technology
Mass termination technology	Mass-production of EMI shielding and noise reduction products
Developed endoscopic rods and lighting and steering equipment	


03 Display cable solutions

Korea's No. 1 LCD TV panel link cable	Korean and foreign display cable and harness solutions
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04 R&D of automotive IT module harnesses

R&D of special cable products for IT-based equipment module for convenience and automotive connections	USB 4.0 cables for automobiles
Ultra-high speed/high-shielded/narrow-pitch cable harnesses	Integrated cable solution based on signal standardization


Intellectual Property Rights

 Patents

17

 Certificates

7

 Government Tasks

4

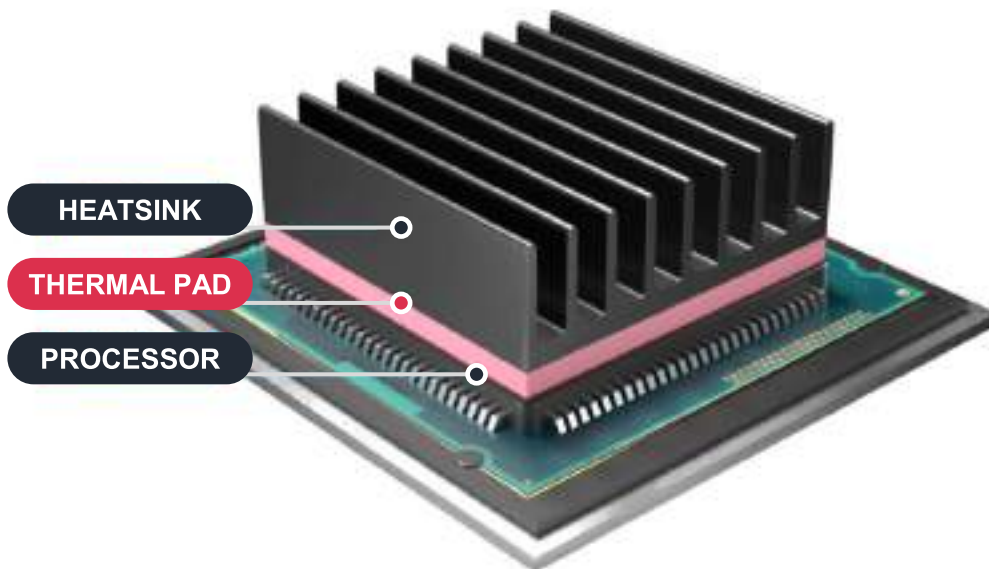
1 Thermal solution

Customized thermal solutions

“

Tae Yang 3C THS” is a **new challenge**.

We research and develop thermal management materials (thermal materials and products) to solve customer problems easily and quickly.



Product applications



MPU



Semiconductor equipment



Battery pack for electric vehicles



EPCU



Inverter



Battery pack

2

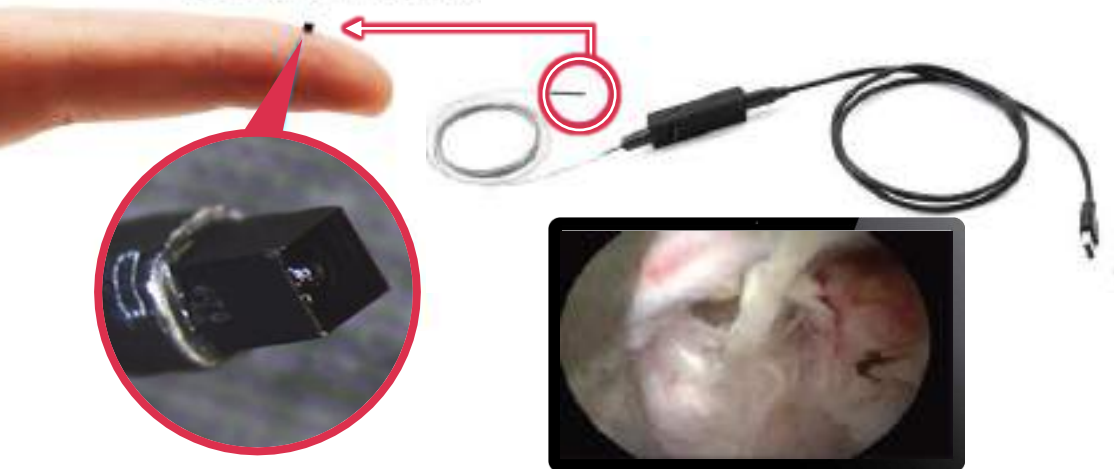
Microendoscope elementary technology

High strength endoscope with the world's subminiature outer diameter

“

We are researching and developing products that minimize the size of endoscopes inserted into the human body while maximizing image resolution for medical professionals, using 3C Tae Yang's microendoscope elementary technology.

We will lead the market as a company specializing in microendoscope modules through continuous research.



* The world's smallest joint outer diameter and highest joint strength

Product application

Medical/spinal endoscopes, industrial visual NDT





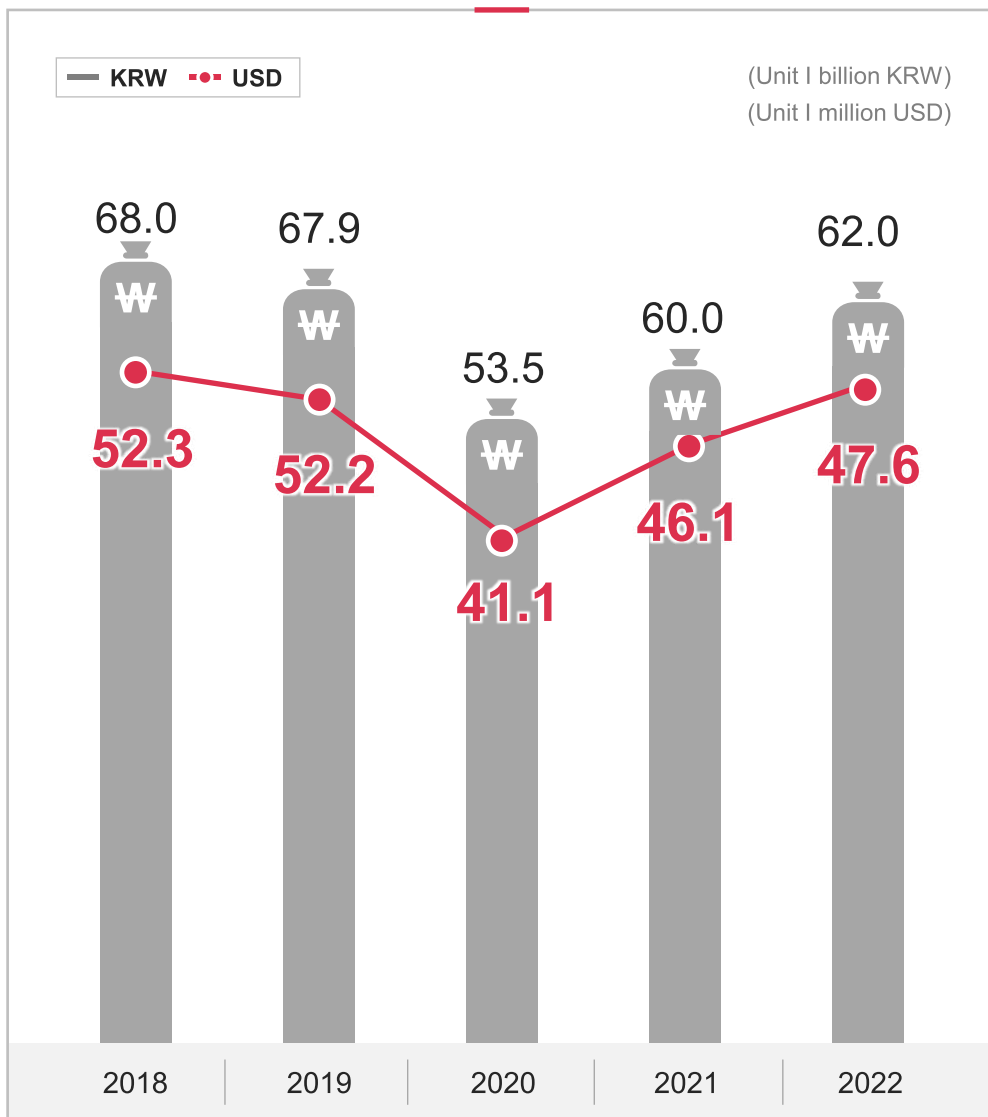
Chapter

IV

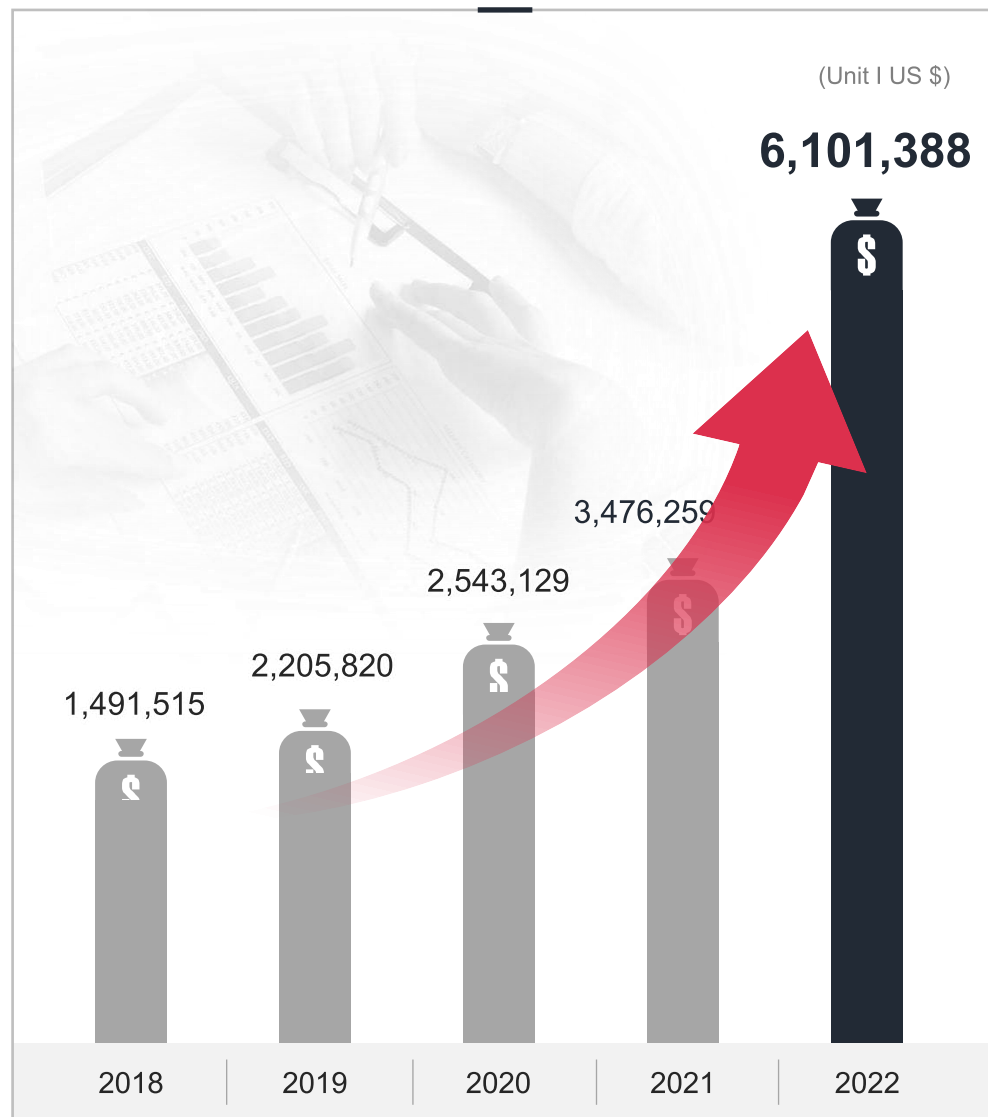
Performance

- 1 • **Management Performance**
- 2 • **Financial Statement**

Revenue Progress



Exports Progress



Statement of Position

Unit: 1 million KRW

Category	2020	2021	2022
Current Asset	31,953	24,817	25,499
Fixed Asset	16,522	30,320	36,149
Total Assets	48,475	55,137	61,648
Current Liability	14,592	13,138	17,974
Long-Term Liability	3,300	8,501	8,235
Total Liabilities	17,892	21,639	26,209
Capital Stock	2,544	2,544	2,544
Capital Surplus	3,099	3,099	3,099
Retained Earnings	26,742	29,600	31,600
Capital Adjustments	-1,817	-1,817	-1,817
Accumulated Other Comprehensive Income	17	17	14
Total Equity	30,583	33,502	35,439

Income Statement

Unit: 1 million KRW

Category	2020	2021	2022
Sales	53,592	60,004	62,652
Cost of Goods Sold	49,023	53,677	54,687
Gross Profit	4,569	6,327	7,964
Selling and Administrative Expenses	4,061	4,117	4,408
Operating Income	508	2,150	3,555
Non-Operating Income	1,951	1,572	3,789
Non-Operating Expense	1,218	780	4,459
Earnings Before Tax	1,242	2,942	2,886
Tax Expense	-182	173	559
Net Income	1,424	2,838	2,327



Chapter

V


Appendix

- 1** • **Patents**
- 2** • **Certificates**



We are active in driving in-house development, introducing advanced technologies, fostering industry-university cooperation, and undertaking government tasks in MCX processing and thermal solutions to aggressively enter the global market.



Category	Titles of Patents				
 <p>Registered patents</p>	<p>01</p> <p>Adhesive tape cutter</p>	<p>02</p> <p>Method of manufacturing connecting cables</p>	<p>03</p> <p>Semi-automatic jig for stripping multiple cables</p>	<p>04</p> <p>Jig for stripping multiple cables</p>	<p>05</p> <p>Automatic stripper for multiple cables</p>
	<p>06</p> <p>Stripper for multiple cables</p>	<p>07</p> <p>Cable alignment device and aligning method using it</p>	<p>08</p> <p>Micro cable and manufacturing method</p>	<p>09</p> <p>Carbon nanotube dispersant and manufacturing method</p>	<p>10</p> <p>Coating automation device and the method for cable shield layers using corona surface treatment and continuous coating treatment method</p>
	<p>11</p> <p>Structure and method of coaxial cable connection</p>	<p>12</p> <p>Conductive ink composition and manufacturing method</p>	<p>13</p> <p>Cable connection circuit inspection system and method</p>	<p>14</p> <p>High thermal conductivity heat radiation sheet with excellent flexibility and manufacturing method</p>	<p>15</p> <p>Shading film with excellent light-shielding properties and manufacturing method</p>

Korean & international application of patents



Structure and method of coaxial cable connection



Method of processing for splicing MCX

02 • Certificates



V. Appendix



ISO 13485 (Medical Device)



ISO 9001 (Quality)



ISO 14001 (Environment)



ISO 45001 (Safety/Health)



UL (Wire Harness)



Designation as Global Hidden Champion



INNO-Biz Certificate



Certificate of Excellent ESG



THANK YOU

Better Quality, Better Partnership... through Science

TY3C
Homepage


[More information about 3C Taeyang](#)

[More information about Thermal pad](#)

[More information about Hawk Eye](#)

Our detailed product lineup

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Social Media

