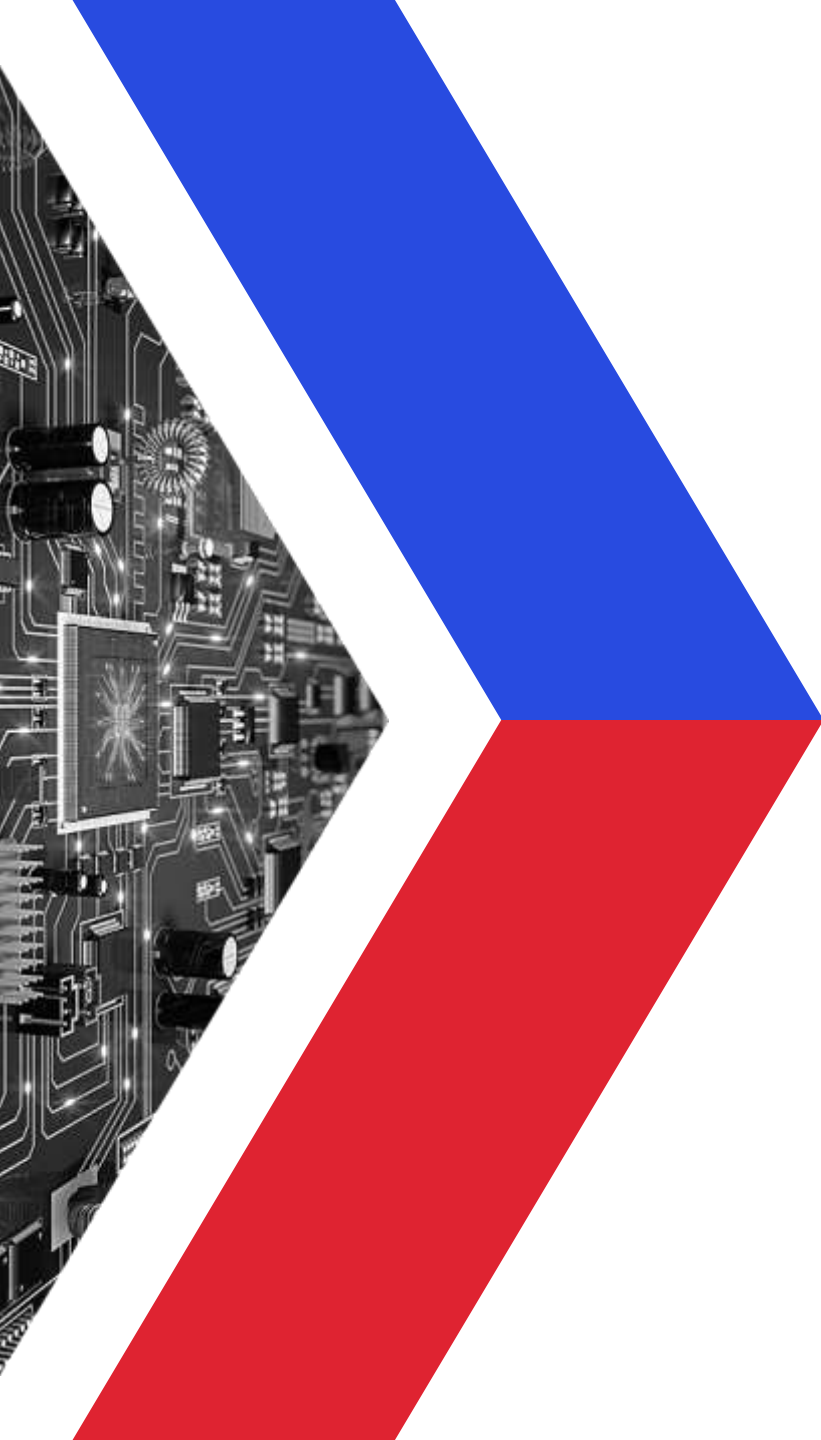


2020 COMPANY PROFILE

SEAs SERVICE EXCELLENCE AWARDS WINNER 2017
ELECTRONIC MANUFACTURING SERVICE

LISTEN WELL, SUPPORT ALL
PROMISE WITH COMMITMENT
EMS/DMS, JDM, PCB, PCBA, BOX-BUILD, SYSTEM INTEGRATION



Index

1. Group Profile
2. Group Service
3. Quality Control
4. Global Logistic
5. Business Partners



01

GROUP PROFILE

Group Resources

Group Resources

Under FIC Global Inc., Headquarter based in Taiwan



Group Resources

Electronic Manufacturing Service

3CEMS
GROUP

FICG
FIC Global



*First International
Computer
DMS*

- ODM / DMS
- ARM Platform Solution (QNX/Android/Linux)
- Digital Cluster Design
- AR HUD Design
- Fleet Management
- ADAS/ECU/BMS/VCU/OBDII Design
- Green Building Integration System
- Intelligent Surveillance Solution

3CEMS
GROUP

*3CEMS Group
EMS*

- Established in 1994 with 26 years EMS Experience. 4800 employees and world top 29th EMS.
- Specializing in Automotive, Industrial, Communication, Medical, Consumer & Maritime Electronics Manufacturing
- PCB/FPCB, PCB Assembly, Box-Build, System Assembly & Integration, JDM, Supply Chain Management, Turnkey Solutions, Server Manufacturing

Ubiqconn

*Ubiqconn Tech
IPC ODM*

- ARM/x86
- Windows/Android/Linux



- Rugged Mobile Computers

 **LEO**

*Leo Systems
System
Integration*

- System Integration Service
- Application Systems Provider
- Banking/ Financial System
- Network System Solution



Milestone

Electronic Manufacturing Service





Group BU

Electronic Manufacturing Service



EMS/JDM PRIME Guangzhou

SMT Lines: 15
SMT Capacity: 1.35 kkk/m
Assembly Lines: 8
Assembly Capacity: 240k/m
MI Lines: 11
MI Capacity: 1080k/m



EMS AMERTEK Shenzhen

SMT Lines: 25
SMT Capacity: 2.57 kkk/m
Assembly Lines: 3
Assembly Capacity: 78k/m
MI Lines: 10
MI Capacity: 1092k/m

DELTON Technology



PCB Strategic Partner GZ

1.7M sq.ft/m



Global Footprints

Electronic Manufacturing Service



-  Headquarter
-  Marketing & Sales Offices
-  Manufacturing Centers
-  RMA Service Centers



RMA Service Centers

Electronic Manufacturing Service



Prime Base Inc (3CEMS Group)

No.19, Bao Ying Nan Road, Free Trade Zone, Guangzhou. 510730
www.3cems.com

ComServe Netherlands B.V. (Partner)

Ruwkampweg 11,5222 ATs'Hertogenbosch The Netherlands. Tel: 31-(0)-73-627-3366
www.comserve-nl.com

ComServe Network Netherlands B.V (Partner)

Leonhardstr.23. 52064 Aachen Germany. Tel: 0049-241-16056-58
Customer Service & Diagnosis, Repair, Final Test Processes

Westcontrol Electronics

Breivikvegen 7, 4120 Tau, Norway. Tel: +47-51741000
www.westcontrol.com
Electronics Manufacturing and Assembly, Machining and Assembly, Electronics Development.

Hotayi Electronics Sdn.Bhd.

Plot 100, Lorong Perusahaan Utama, Taman Perindustrian Bukit Tengah, 14000 Bukit Mertajam, Penang, Malaysia. Tel: +604-507-4349
www.hotayi.com
Sorting & Repair & Rework function



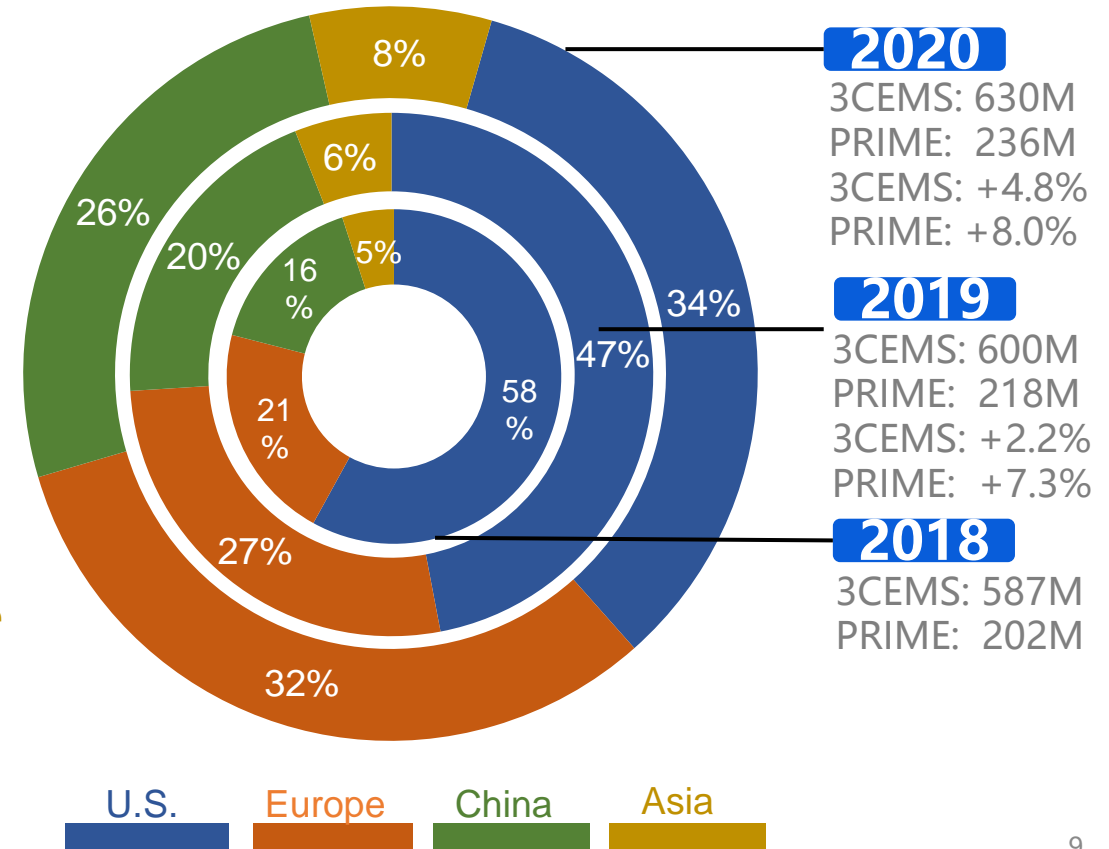
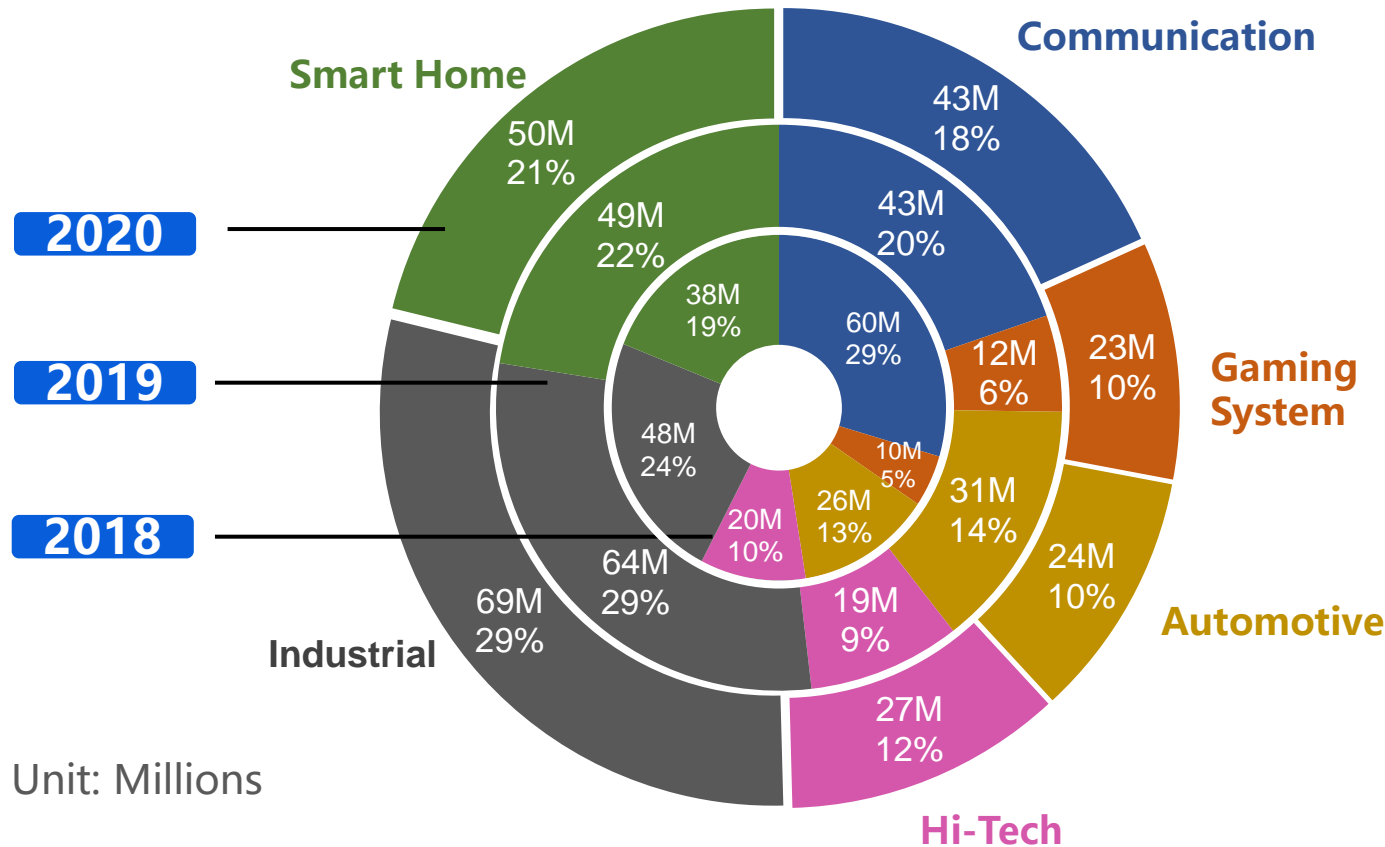
Revenue Status & Market Trend

Electronic Manufacturing Service



Market Key Factors:

- Tariff War Factors.
 - Due to Oil market increasing, Marine business also increases a lot within next 3 years.
 - Chinese EV market keeps on increasing & occupying 60% of global shares (770K cars). 2030 reaches 6.4M.
 - Datacom increased in 2018 & 2019, but will be decreasing in 2020.
-
- Global automotive market decreases 2.6% - 92.2 millions cars, 2025 expects to reach below 2%.
 - China Smart City/Home will be increasing 47.2% from 2018 to 2023 (106M-201M USD), due to 5G & AI.
 - E-Sport Gaming industry has been increasing quickly since year of 2017 in China.
 - Smart manufacturing business in China expects to reach 428 billions USD in 2023.





Business Position & Uniqueness

Electronic Manufacturing Service



- Tier 2 EMS/DMS (Service Excellent Awards Winner US)
- JDM/DMS Supports (FIC X 3CEMS)
- LV/HM Experience (26 Years)
- Fast NPI Flexibility (4 Weeks)
- Competitive Cost (Production Optimization)
- Global Customers 2020 (32% EUR, 34% Asia, 34% U.S.)
- Long Term Partnership with Customers





Core Competence

Value Proposition

Direction

Strategy

Cost-Effective & Customized Services

Providing unique services cater to LVHM (Low-Volume-High-Mixed) requests to realize fine-quality and cost-effective products with absolute on-time delivery.

- 6 Strategy Project Teams (Communication, Industrial, Automotive, Gaming System, Hi-Tech, Smart Home) As Independent Service.
- Continuously Engineering Power and Equipment Investment
- Sourcing Power Escalation
- 6 Months Ahead of PO & Production Schedule Plan
- 12+ Months Forecast Planning for Material Preparation
- Group Business Resource Integration and Support (DMS)
- Tariff Trade War Strategy
- Effective Cost Controls by Lean Production System



02

SERVICES

Services & Technology

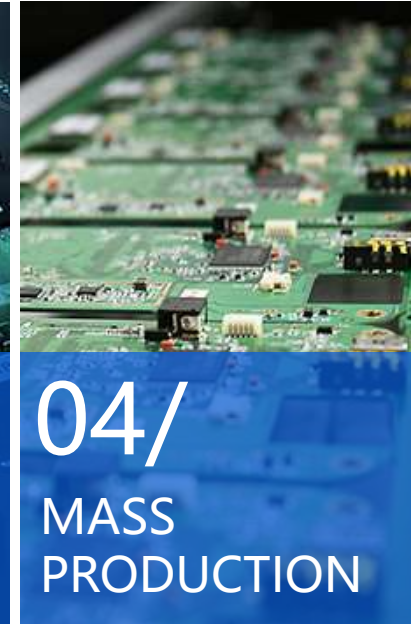
Electronic manufacturing services mainly focus on automotive, communication, industrial marine, medical and consumer segments.



Service Offer

Electronic Manufacturing Service

3CEMS
GROUP / PRIME



General Services

- Cost/Process Optimization
- Supply Chain Management
- Component & Product Traceability
- Logistics
- PCBA/FPCBA Manufacturing
- Box-Build/System Build
- System Integration (*on request)
- Testing/Validation



Product Applications

Electronic Manufacturing Service

INDUSTRIAL

- Smart Building Controller
- Maritime INBS
- Test Measurement System
- M2M-IoT Wireless Sensor
- Wireless Payment System
- ATM Security Controller
- Precision Motor Encoder

COMMUNICATION

- WiFi / Zigbee / Broadband
- Optical Transceiver
- Mega / Data Center
- Embedded

AUTOMOTIVE

- ECU Gateway
- ADAS
- EV Charger
- Cluster
- Infotainment
- BMS

MEDICAL

- Medical Beauty Device
- Fitness Belt
- Heart Sound Detector
- Glucose Measurement Device

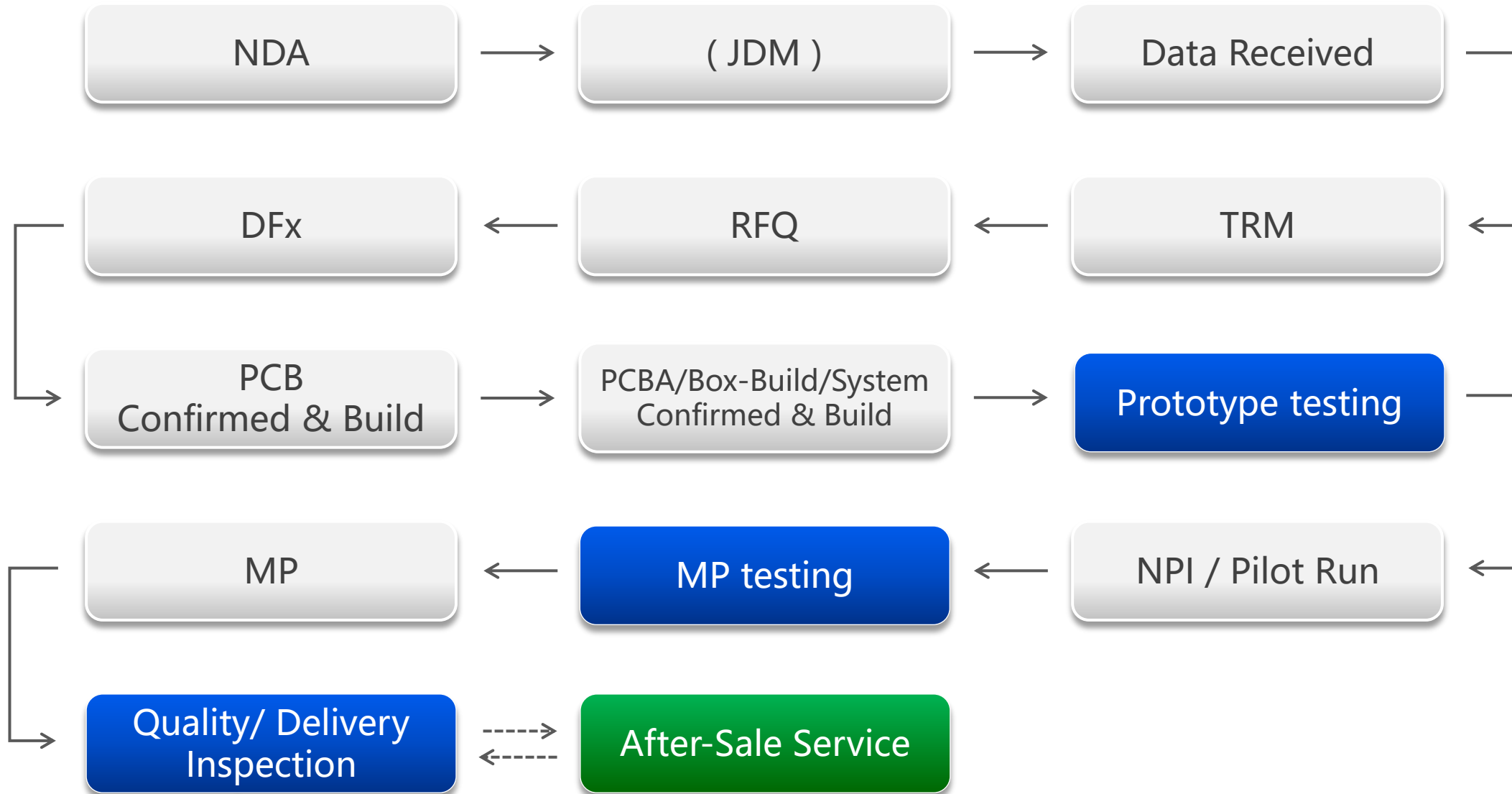
CONSUMER

- Smart Household Device
- Drone / UAV
- Mother Board
- Gaming System
- Touch Panel
- Smart Watch



Service Flow

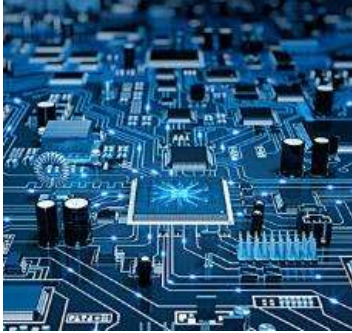
Electronic Manufacturing Service





Capability Part-A

Electronic Manufacturing Service



Component Capability

- Solder Paste Printing
- SMT (BGA, uBGA, PoP and 01005, 008004)
- BGA/CSP/CBGA/CCGA/PBGA down to 140 micron pitch
- Flip Chip with die size of 0.5~50mm
- COB, PoP, Multi-Chip, Chip on FPC

Manufacturing Capability

- PCBA Assembly/Box-Build/IPXX Assembly
- System Build/System Integration/Programming
- Burn In/ Run In
- Die Bonding/Wire Bonding
- Conformal Coating (UV-Curable)
- Chip Underfill/ Corner Bonding
- Ultrasonic Welding/ Laser Engraving
- Process Design & Optimization
- Material Handling
- Component Traceability
- Test & Validation
- FMEA System (PFMEA)
- DFM/DFA



Capability Part-B

Electronic Manufacturing Service



Testing Capability

- Circuit/Functional Test by JTAG
- Boundary Scan
- Flying Probe
- 2D/3D AOI, AXI, 2D/3D X-ray
- ATE, DFT, RF, HASS, Burn in, ESD Check
- Hi-Pot Test



Services Offer

- JDM
- Prototype
- NPI/MP
- LVHM
- Logistic
- Turnkey/Sourcing
- RMA

03

QUALITY

3CEMS Group holds many approval certifications in quality, automotive, medical, and marine manufacturing, also the SEAs award winner in quality.





Quality Assurances

Electronic Manufacturing Service

3CEMS
GROUP / PRIME

01

ISO 9001
ISO 14001

02

ISO 13485
Medical

03

ISO 26262
Automotive
Functional Safety

04

TL-9000
Communication

05

IATF 16949
Automotive

06

UL/TUV/CCC/CE
Approved

07

REACH/RoHS

08

IPC Member

Quality Managements:

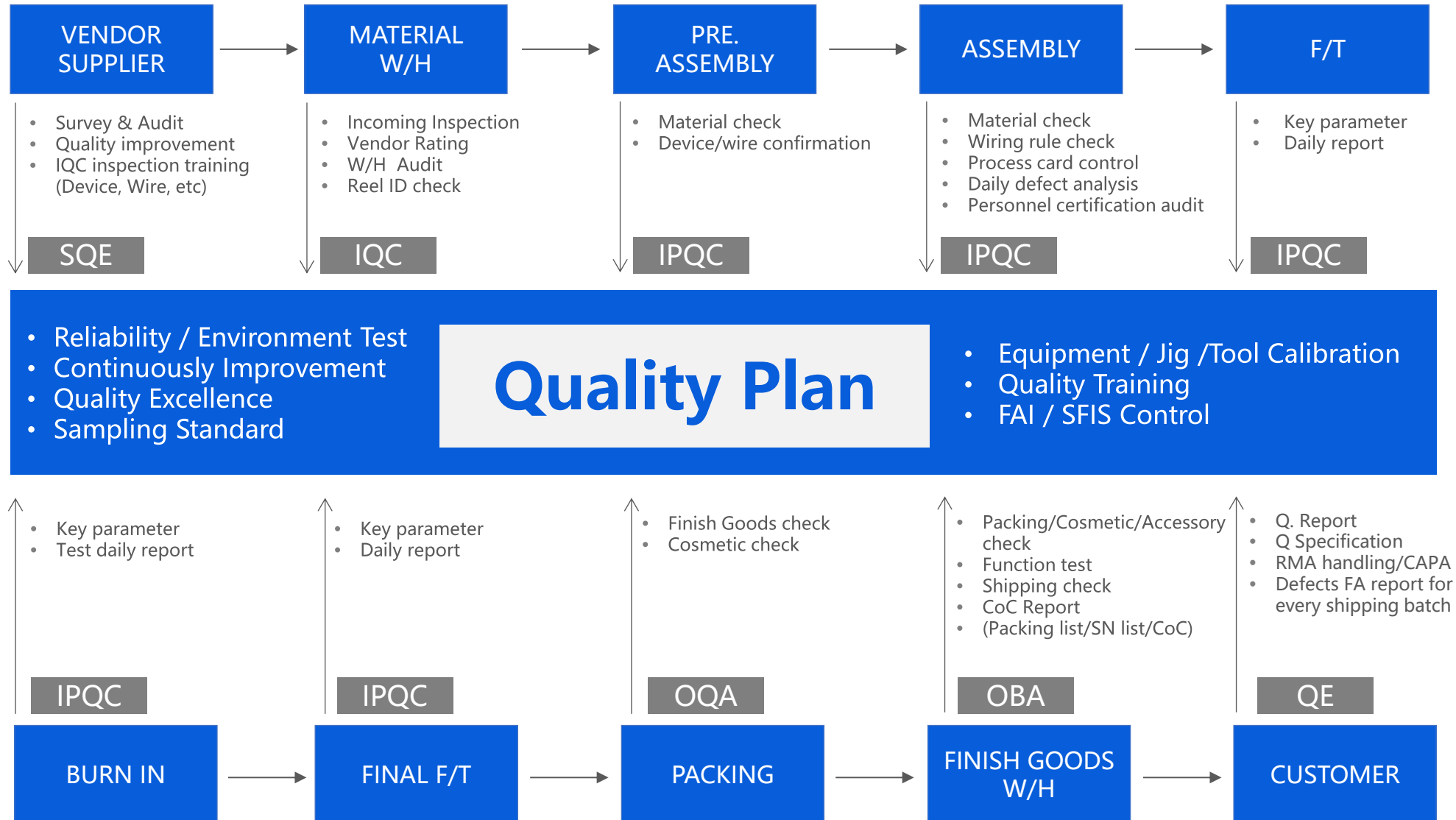


- Process Validation
- Supplier Management
- Audits
- SFIS (100% Traceability to Component Level)
- Quality Improvements
- Environmental Friendly



Quality Assurance System

Electronic Manufacturing Service





Production (SMT+MI)

- Mounting Machine
- High Speed Machine
- Multi Function Moulder
- Die/Wire Bonding
- Underfill/Glop Top Machine
- Reflow Machine
- Soldering Machine
- Routing Machine
- Coating Machine
- Ultrasonic Machine
- Press Fit Machine

Testing

- PCB Appearance Check Machine
- Solder Paste Thickness Tester
- 3D SPI/AOI/ICT/X-ray
- FAI Tester
- Flying Probe
- Boundary Scan

Reliability

- Burning Room
- Salt Spray Tester
- Temperature & Humidity Chamber
- Vibration Tester
- Thermal Shock
- Drop Tester
- ESD Simulator
- Microsection Inspection
- Dye Penetrant

01

02

03



Air

Guangzhou
Shenzhen
Hong Kong



Sea

Shenzhen
Hong Kong



Land

Mainland China

Variety & Flexibility

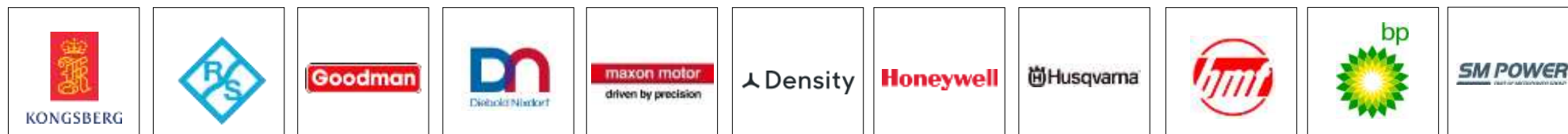
Logistic Service Operation

- The Close Touch to Worldwide
- 2 Harbors for Shipping
- 3 Airports for Air Parcel
- Import Tax Free
- Secure Custom Inspection
- Free Trade Zone Advantages

Automotive



Industrial



Communication

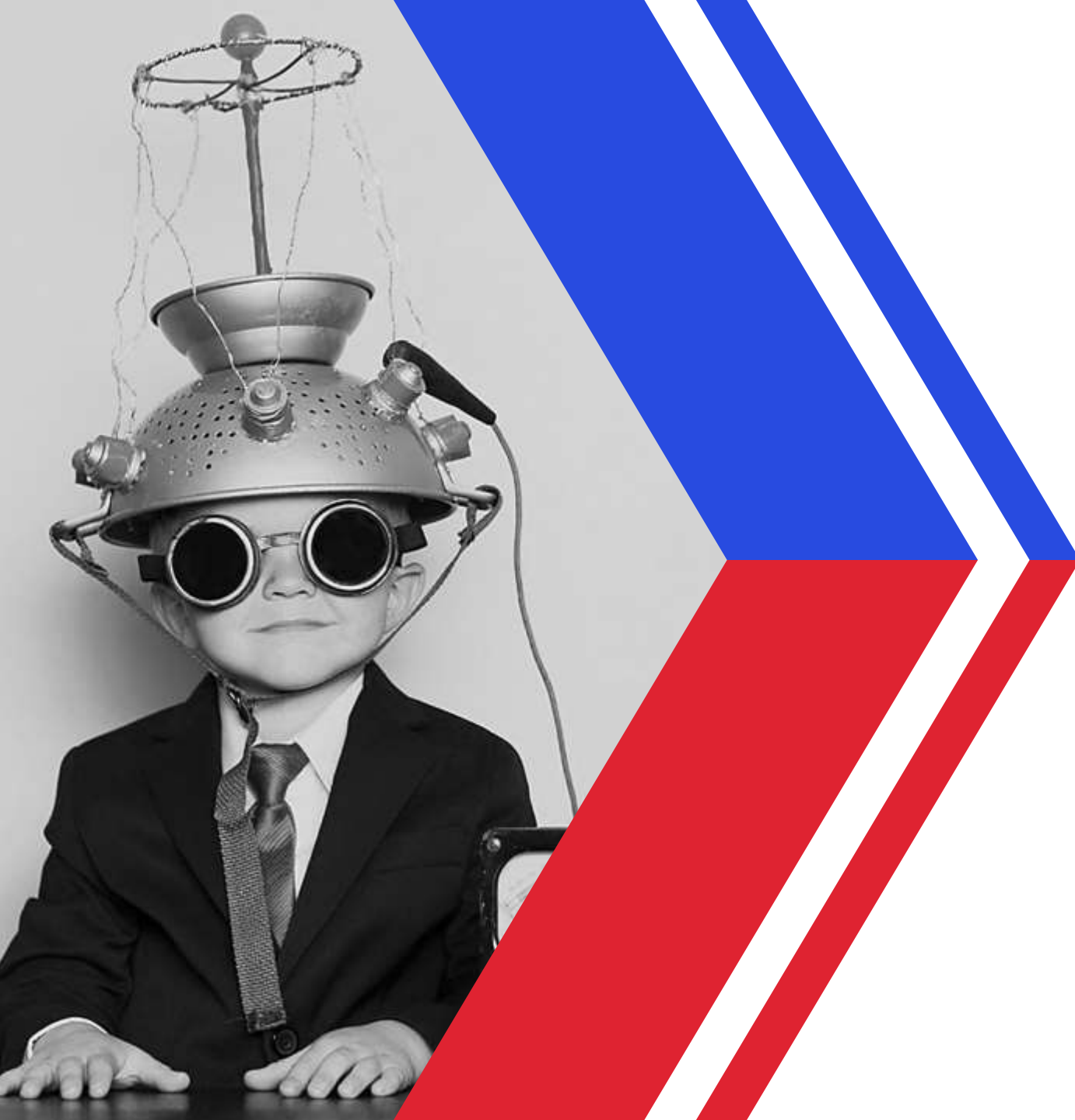


Consumer



Medical





Listen Well, Support All
Promise with Commitment

THANK YOU

www.3cems.com

- Revised contact information of RMA Service Centers on Page 8.
- Deleted VALUED CHAIN the title on Page 15.
- Revised some editing accuracy.
- Change Wisk logo
- Change SM Power logo and move it to Industrial Partner
- Remove Tridium, Lynxspring
- Add Husqvarna to Industrial Partner