



m&C ELECTRONICS

Vietnam Plant

M&C Vietnam



**Die-Casting Specialist credited by global companies
through a leading-edge technology**

Your Satisfaction Is Our Success

ABOUT US

M&C Electronics is leading technology company specializing in:



Die-Casting

Injection
Molding

CNC
Machining

Across the globe, our employees bring innovation and technology together to develop engineering solutions for companies in the Electronics Industry.

OUR ACHIEVEMENTS

Tianjin M&C Electronics (China)



- 2007 ○ - Established – China Corporation
- 2008 ○ - Attained ISO9001 & ISO14001
- 2009 ○ - Official vendor to Samsung Mobile
- 2013 ○ - Awarded as High-Tech Enterprise by National Science & Technology Committee of China
- 2015 ○ - Attained OSHAS18001 Certificate
- 2016 ○ - Attained IATF16949 Certificate
- Official Automobile Vendor to ZF TRW, SLC & SEM
- 2017 ○ - Official Automobile Vendor to LG Innotek
- Attained Safer Quality (SQ) Certificate

M&C Electronics VINA (Vietnam)

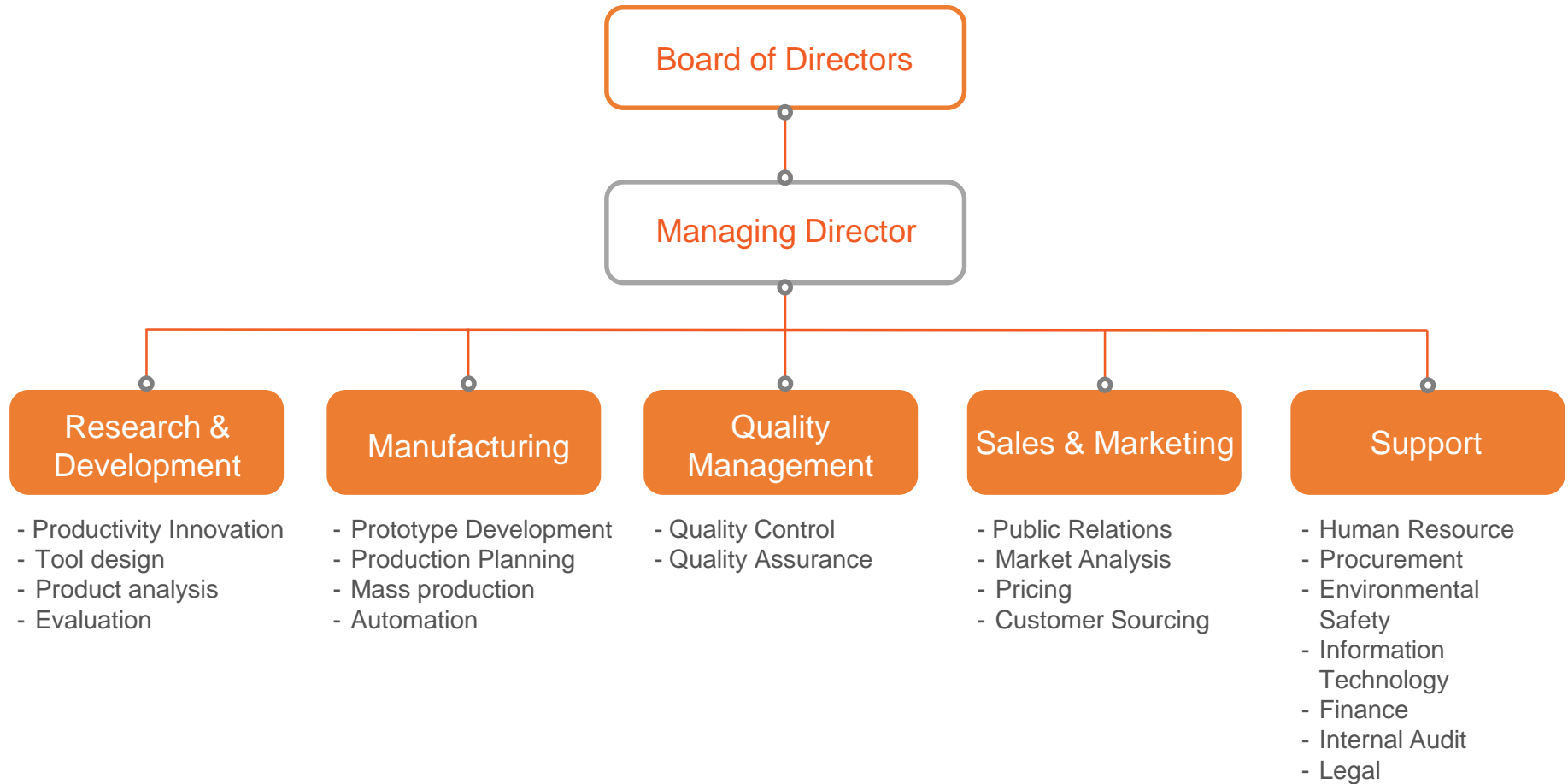


- 2013 ○ - Established – Vietnam Corporation
- 2014 ○ - Official Mobile Vendor to Samsung
- Attained ISO9001 & ISO14001 Certificate
- 2016 ○ - Official Electronics Vendor to Cpro(CCTV) & KMW(LED)
- Co-R&D project with Viettel & Bkav (Vietnamese mobile set maker)
- Attained IATF16949 Certificate
- Awarded as one of 'Top 3 companies' in BacNinh Province
- 2017 ○ - Official Mobile Vendor to Qualcomm
- Official Electronics Vendor to Hanwha Techwin (CCTV) & Ace Antenna (Antenna)
- 2018 ○ - Official Electronics Vendor to PowerLogics (Camera module)
- Official Vendor to ZF TRW (Automotive parts)
- 2019 ○ - Official Vendor to LG Innotek (automotive parts)
- Official Vendor to Jabil (Electronics)
- Attained ISO45001 (OHSAS18001)
- 2019 ○ - Attained ISO13485 (Medical device certificate)

LOCATION

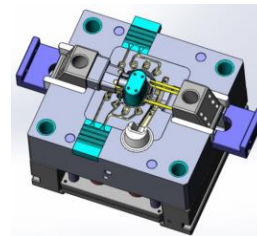
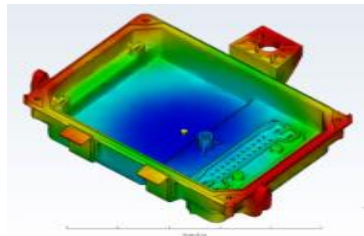


ORGANIZATION CHART



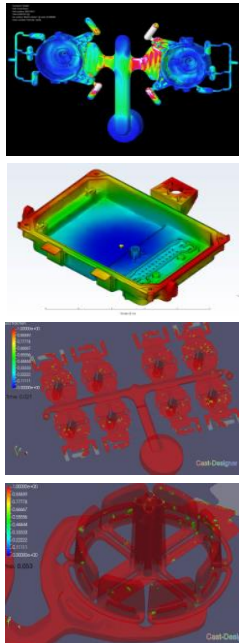
CORE COMPETENCIES

01



RESEARCH & DEVELOPMENT FACILITY TECHNOLOGY & INNOVATION

Tooling Development & Machining



Vietnam Plant

- 18 Engineers
- Capacity: 15 sets/month

Die-Casting

Injection Molding

CNC
Machining tool



Customer Industry

Mobile

Automotive

Electronics
CCTV, Antenna
and LED
industries

MANUFACTURING CAPABILITY

Our plants provide the following manufacturing processes:



1. Mold making



2. Die-Casting



3. Injection Molding



4. CNC



5. Press



6. Non-Chromate Plating



7. Paint Coating Line



8. Assembly Line

One-Stop Manufacturing Process

Minimize
Outsourcing

Short Lead
Time

Stronger
Quality
Control

Competitive
Price

CUSTOMER & PRODUCT PORTFOLIO

02



CUSTOMERS

Customers in different industries:

1. Mobile:

The logo for Samsung mobile, featuring the word "SAMSUNG" in blue and "mobile" in blue below it.The logo for Qualcomm, featuring the word "Qualcomm" in blue.The logo for VSMART, featuring a red flame-like icon and the word "VSMART" in black.

2. Automotive:

The logo for LG Innotek, featuring the LG logo (a red circle with a white 'L' and 'G') and the text "LG Innotek" in black.The logo for ZF TRW, featuring the ZF logo (a blue circle with a white 'Z' and 'F') and the text "TRW" in red.

3. Antenna & CCTV:

The logo for ace technology A, featuring the text "ace technology" in black and a red "A" to the right.The logo for CPRO, featuring a blue stylized 'e' icon and the text "CPRO" in blue.The logo for Hanwha Techwin, featuring an orange circular icon and the text "Hanwha Techwin" in black.

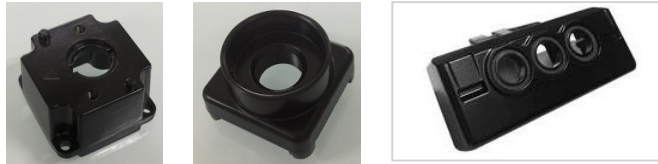
4. Electronics & Others:

The logo for JABIL, featuring the word "JABIL" in blue.The logo for KNW, featuring the letters "KNW" in blue with a red underline.



ADAS Camera

- Casting / Non-Chromate Plating / Coating / Ultrasonic Cleansing (Cleanliness <300µm)



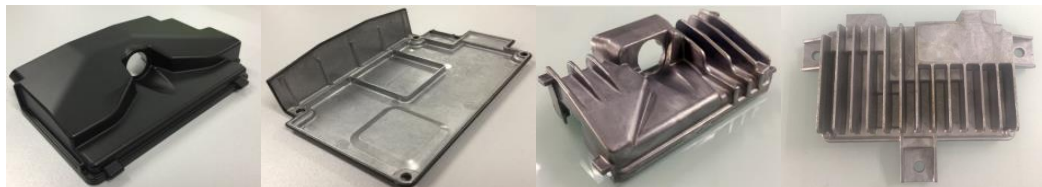
EPS Motor Parts

- Casting / CNC & MCT Machining



ADAS Camera & ECU Housing Parts

- Casting / Non-Chromate Plating / Coating / Ultrasonic Cleansing (Cleanliness <300µm)





- Co-R&D with Samsung in die-casting & CNC machining (2009~present)



Galaxy S3~10



Galaxy Note3~9



Galaxy Tab S1~3

Qualcomm

- World's 1st 5G phone built on M&C's mechanical parts
- Numerous on-going Co-R&D projects with Qualcomm



5G Smartphone



5G Mobile Test Platform



5G CPE (Customer Premises Equipment)

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CCTV & ANTENNA

ace antenna **A**

Antenna Parts

- Key process: Non-Chromate Plating / Paint Coating / Tin+Copper Plating



 **Hanwha**
Techwin

CCTV Camera Parts

- Key process: Non-Chromate Plating / Paint Coating



MANUFACTURING CAPACITY

03



MANUFACTURING MACHINERIES / FACILITIES OVERVIEW

1. Mold making



▷ 12 Machines

2. Die-Casting (MG & AL)



▷ 31 Machines (Zn 4, Mg 11)

3. Press



▷ 41 Machines

4. CNC Machining



▷ 346 Machines

5. Injection Molding (Plastic)



▷ 16 Machines

6. Non-Chromate Plating



▷ 2 Lines

7. Paint Coating Line



▷ 1 Line

8. Assembly Line



▷ 6 Lines

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1. DIE-CASTING



Size	No. of Machines
8 Ton (Zn)	4
125 Ton	12 (Mg 6)
350 Ton	12 (Mg 5)
400 Ton	2
900 Ton	1
Total	31

- 12 Engineers
- Product Range:
 - up to 360mm X 360mm

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2. CNC MACHINING



Type	No. of Machines
Turning Center	14
MCT	317
Tapping	15
Total	346

- 12 Engineers
- Production Range:
 - up to 500mm X 350mm X 150mm

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3. SURFACE TREATMENT



- 4 Engineers
- 2 Automated Lines – minimize human error
- Resist 720 hours of Salt Mist Testing (customer's standard)

4. INJECTION MOULDING



Type	No. of Machines
90 Ton	2
100 Ton	2 (vertical type)
130 Ton	1 (double-injection)
180 Ton	6
200 Ton	5
Total	16

- 5 Engineers
- Production Range:
 - up to 120mm X 70mm, 2 cavity



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5. PAINT COATING



- 8 Engineers
- Fully automated 395 meter line with 2 booths (4 spray robots)
- Able to paint coat both Metal & Plastic products

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6. CLEANSING



- 1 Engineer
- Production Range: up to 180mm X 180mm X 30mm
 - 2 regular size & 1 mini ultrasonic cleansing machines
 - 1 high pressure water cleansing machine

QUALITY ASSURANCE

04



VALIDATION & MEASURING EQUIPMENTS

ANALYSIS

	XRF Analyzer	Content Analyzer	Salt spray	Thermo-Hygrostat	Thermal Shock	Rubber Friction	UV Rays	Tensile Machine	Drop Tester	Hardness Tester	X-Ray
Picture of M/C											
# of M/C	1	2	2	1	1	1	1	2	1	1	1
Model	EDX-GP	Spectro Max	HL-60SS	KJU-150L	TST-70A	MST-803B	TST-70A	HZ-1004C	MST420	YK-5022	OSPREY 160-5

MEASURING

	Non-Contact 3D	Contact 3D	Adhesive Strength Tester	Surface Roughness Tester	Humidity Tester	Humidity Tester	Hardness Tester	Pulling Resistance Tester	Hardness Tester	Thickness Tester	
Picture of M/C											
# of M/C	3	2	1	1	1	1	1	4	1	1	
Model	VMC322	HIT 8127C	VML300	SJ500P	MS-70	MD-300S	570 HAD	MK-300	570HAD	HAWK-13CU	

QUALITY CERTIFICATIONS



ISO 9001



ISO 14001



ISO 22716



IATF 16949



ISO 45001



ISO 13485

CONTACT US

M&C Singapore - Headquarter

Address: 18 Boon Lay Way #08-109
Tradehub21
Singapore (609966)
Tel: +65-97720995
Email: lourdes.lum@mnce.biz

M&C Vietnam - Production Plant

Address: Lot J1, Que Vo Industrial Zone, Phuong Lieu
Commune, Que Vo District, Bac Ninh Province,
Viet Nam (220000)
Tel: +84-789-220-111
Email: jln@mnce.biz

M&C Korea - Sales Office

Address: Doosan The Landpark A-809, 161-8
Magokjungang-ro, Gangseo-gu
Seoul, Korea (07788)
Tel: +82-70-5102-6992
Email: dh.kim@mnce.biz

M&C Tianjin - Production Plant

Address: Keda 2nd Road H-B1, Jinnan MIP,
Tianjin, China (300350)
Tel: +86-185-0261-6137
Email: sprina@mnce.biz



THANK
YOU