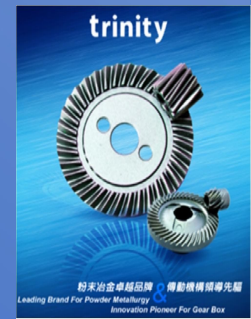
Trinity Precision Technology Co.,Ltd.

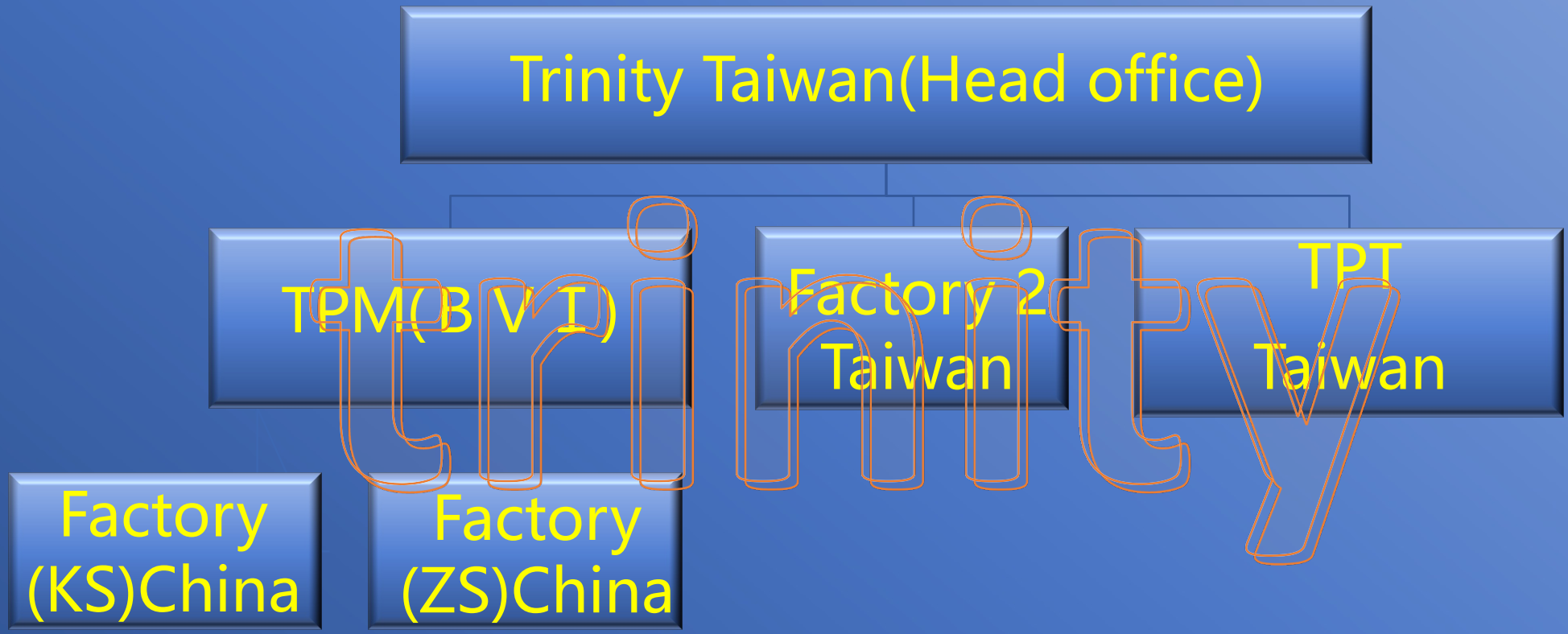
Operating Report

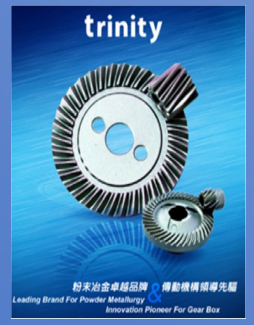
2023. 12.5

Leading brand for powder metallurgy
&Innovative pioneer for gearbox



Organization

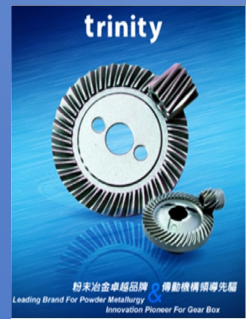




Factory distributions

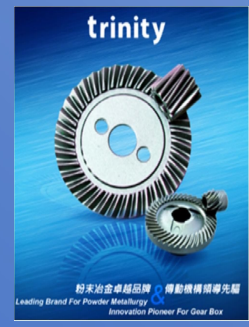
Certificate of

ISO 9001
ISO 14001
IATF 16949

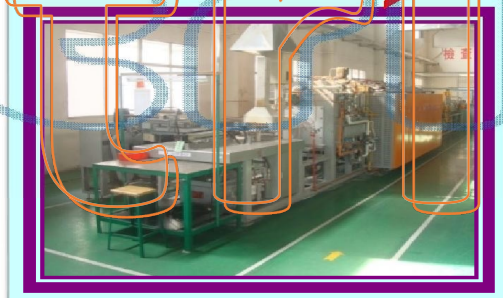


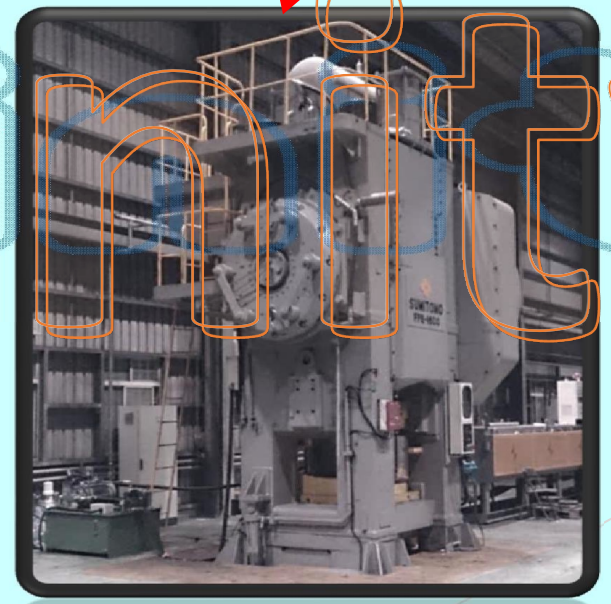
Milestones

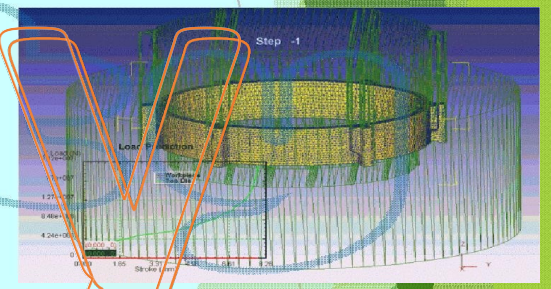
- Established in1993, major market in power tools.
- 2002, set up factory in Dongguan China.
- 2003, listed in Taiwan stock market
- 2009, set up factory in Zhonshan(ZS) China.
- 2011, set up factory in Kunshan(KS) China.
- 2010, set up factory2(ZL) in Taiwan and built gearbox production line
- 2010, MIM production line built in (ZS)
- 2012, spiral face gear launched with breaking through design
- 2017, powder forging product launched in China & Taiwan.
- 2021, developed alloy products successfully.
- 2023, built gearbox & MIM production line in Kunshan(KS) China.

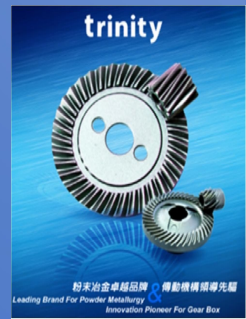


Powder forging production process



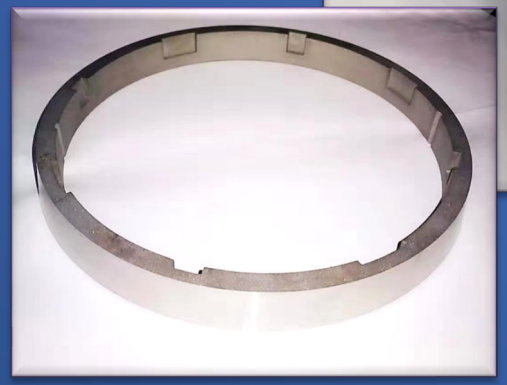






Powder forging characteristics

Powder Forging



一般粉末冶金產品的密度有一定的極限在，為了提高密度接近材料理論密度並提升產品物理性能，故實施粉末冶金再鍛造的手段

Combining sintering process with forging process to improve density and physical properties of Powder metallurgy components 。

優點Advantage:

a. 節省材料(餘料少)

Reduce raw material lose

b.提升產品密度

Improve parts density (7.7以上 g/cm*3)

c. 提升產品強度

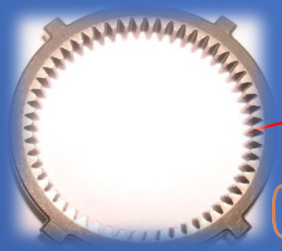
Improve parts strength

d. 製程少

Less process

PM products-automotive

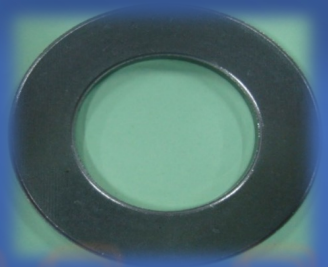
歐系車廠啟動馬達行星



日系車廠稱桿活塞

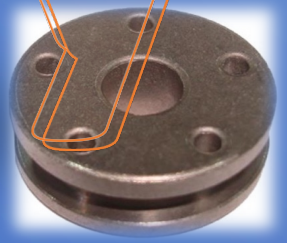
日系車廠稱桿活塞

日系車廠油封底閥



日系車廠減振器油封擋環

日系車廠油封底閥

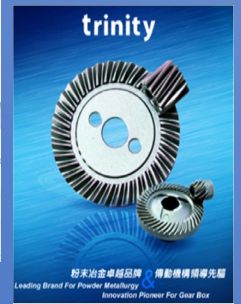


日系車廠稱桿活塞

PM products-others

Parts for

Power tools
Sewing machine
Floor care
Ship
Gardening tools
Sports equipment



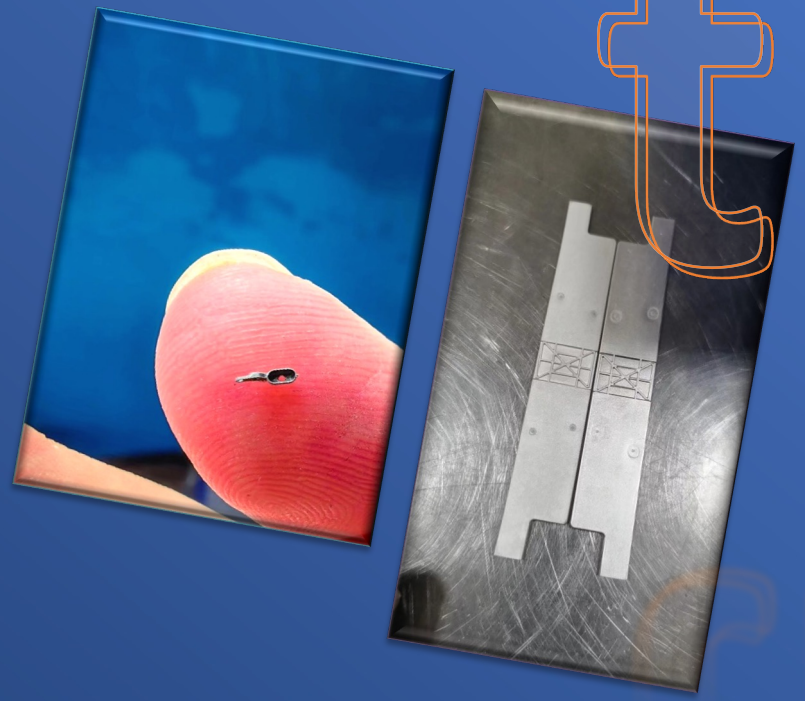
MIM Division

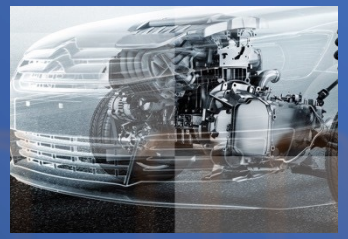
MIM Injection	20
Dewaxing	6
Vacuum furnace	9
Vacuum furnace-RD	1

Major facilities are from Japan.

MIM products

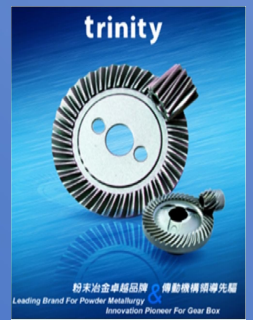
Major products are for automobile, motorcycle, power tool, kitchen tool, floor care, bicycle, electronics, wireless communication, medical device & AI hardware





Gearbox Division

- Gearbox applications in power tools, household appliances, logistic managing system, solar energy & medical device.
- Production lines in Taiwan(ZL) and China(KS)



Industry overview

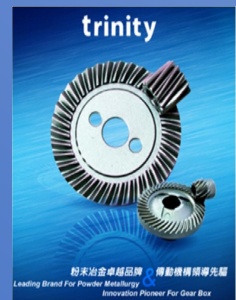
Powder metallurgy– Application in traditional market	Automotives	Powertrain systems(transmission, synchronizer, starting motor, steering wheel)/oil pumps and brake system, power window, power chair, power curtain..	70%	90%
	Power/Air& Hand tools	Mainly used in various gearbox reducer (screwdriver、electric drill、hammer drill、cylinder、hand tool parts)	15%	
	Sewing machine	Connecting lever crankshaft、eccentric shaft、functional parts and fasteners.	5%	
	Others	Aerospace、medical、home appliances、locks、fuel cells..	10%	10%

1.)PM industry has been thriving over 50 years due to improvements on material、mold、equipment. Many new comers create market competition.

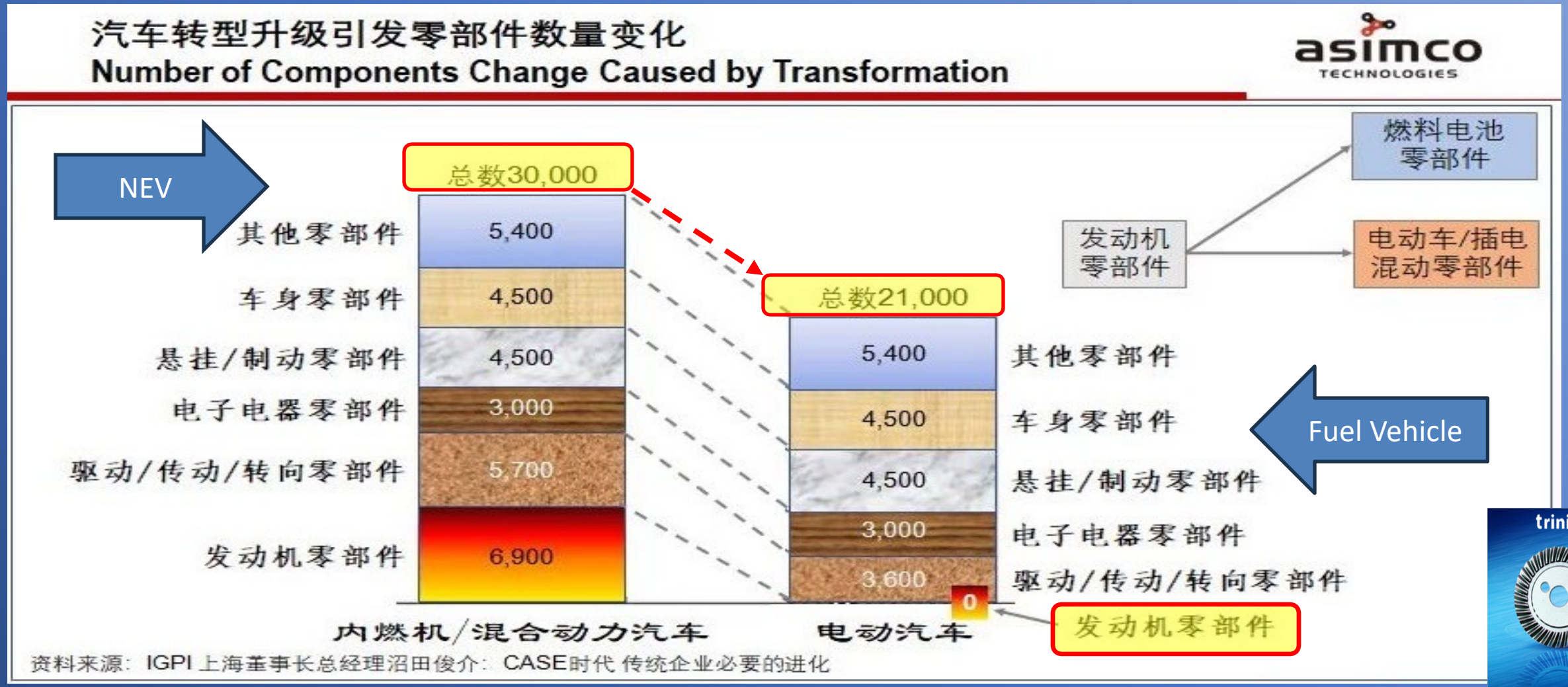
2.)Traditionally, automotive power train system is biggest application for powder metallurgy. However ; electric vehicle do not require powertrain system.

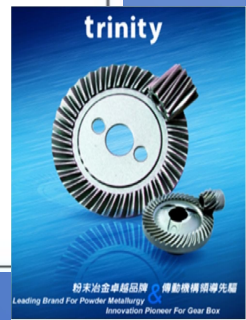
3.) Engineering plastic improvements replace some power metallurgy market. low Cost Chinese forging producers also erode PM market.

4.)Wars between Russia & Ukraine/Israel & Palestine;COVID-19;global inflation; Sino-US trade war lead industrial restructuring. Powder metallurgy industry faces unprecedented challenges.



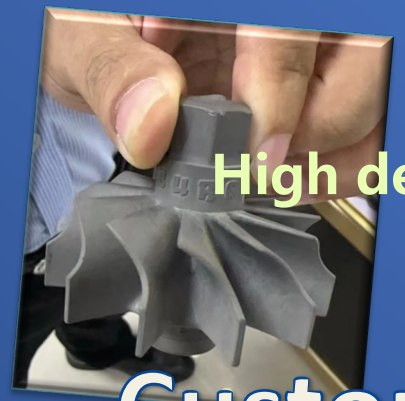
NEV- Industry migrate





Strategy for challenges

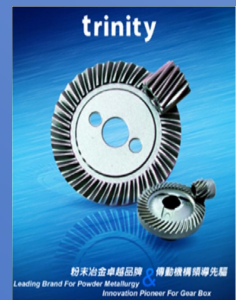
Embracing future BIG market



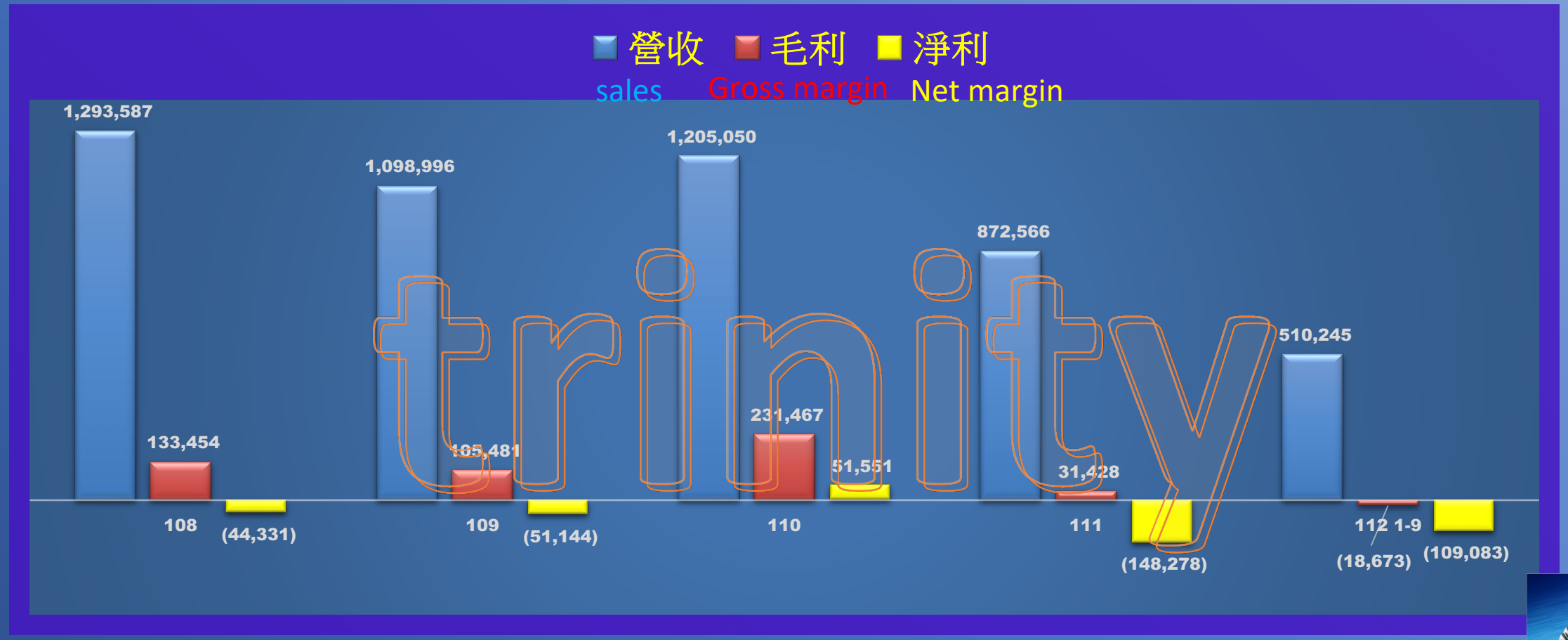
Utilizing advantages on material improvement

High density/High strength/High wear resistance/High ductility/High conductivity

Customization / Personalization / Differenciation



Historical operating outcome



Trinity advantages

The only one in the Chinese world owns powder metallurgical 、 MIM 、 powder forging 、 gearbox technology and production line. For 3 consecutive year Trinity won Taiwan Excellence award.

- 2018 the first and only manufacturer in Taiwan to successfully develop powder Forging technology and mass production to auto Tier 1 customer.
- 2019 the first manufacturer in Taiwan to successfully develop high density powder metal products.
- 2020 Successfully developing magnetic and stainless steel magnetic materials.
- 2021 Successfully developing MIM parts for chip cooling applications
- 2021 the first company in Taiwan to successfully develop aluminum alloy products and mass production.
- Qualified by 2 different Tier1 auto brands
- 2023 successfully enter medical device industry.