

GALAXY TECHNOLOGY

SAWING – GRINDING – LAPPING – POLISHING

凱勒斯科技有限公司

Challenge Impossible!

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Introduction 公司簡介

凱勒斯科技有限公司 (Galaxy Technology Development Company) 成立於 2011年，是由一群努力實踐自我的快樂工作者所組成，專注於綠能科技產業鏈的發展與整合，現以供應切割、研磨及拋光等相關製程的材料與加工設備，廣泛地應用於半導體、發光二極體 (LED)、太陽能 (Solar) 及各類精密陶瓷、寶石等產業的加工。同時積極尋求國內外各先進夥伴合作開發新產品、新技術及新應用，透過系統化的技術整合，共同開創新綠能科技及製程技術，成為具有競爭性及未來性的業界領航者。

客戶服務範圍及技術合作廠商遍佈台灣、美國、德國、瑞士、蘇聯、中國、日本、韓國等地區。

不斷的創新、研究與發展、新技術、新應用、新產品是我們面對市場競爭及作好客戶服務的經營策略。

凱勒斯公司資訊

地址: 臺灣新北市五股區五權七路22號之一員工人數: 50人

公司網站: www.galaxies.com.tw



Business Philosophy 經營理念

凱勒斯科技得宗旨-” 凝聚向心力、串聯協力廠商、完成客戶需求”。貢獻自身微小力量，集結上、中、下游所有供應鏈，藉以匯聚成為巨大的能量，成就一條閃耀於夜空中的銀河。

所有的【I】 組成【WE】，當【I】變成為【WE】時，個人、部門、供應商、客戶、產業等星系互相輝映照耀，更能展現團結力量，符合個體需求，實現「想」的目標，追求卓越、成就非凡，達成 GALAXY 凱勒斯科技永續經營的目標！

服務宗旨：凝聚向心力、串聯協力廠商、完成客戶需求

品牌形象：提供全方位系統性的解決方案（Total Solution Provider）專業科技系統整合及技術服務的供應商暨平台。

經營理念：The Power Of 【I's】 - 凝聚的力量企業標語：

Innovation - 創造

Inspiration - 啟發

Infatuation - 熱情

Integrity - 誠信



Galaxy Network 凱勒斯分佈



台北總部



嘉義正一廠

技術服務據點



服務據點	人數
廈門	4人
臺北	8人

品質與認證



**EAGERLY CONTINUE IMPROVING & UPGRADING
TO BE
TRUSTED & SATISFIED**

凱勒斯科技經營大事紀：

2013.09 通過IECQ QC 080000:2012 HSPM

2013.06 榮登 2013 年版台灣地區大型企業排名TOP5000

2012.10 榮獲 2012 第 9 屆 國家 品牌 玉山 獎-傑出企業類

2012.06 榮登 2012 年版台灣地區大型企業排名TOP5000

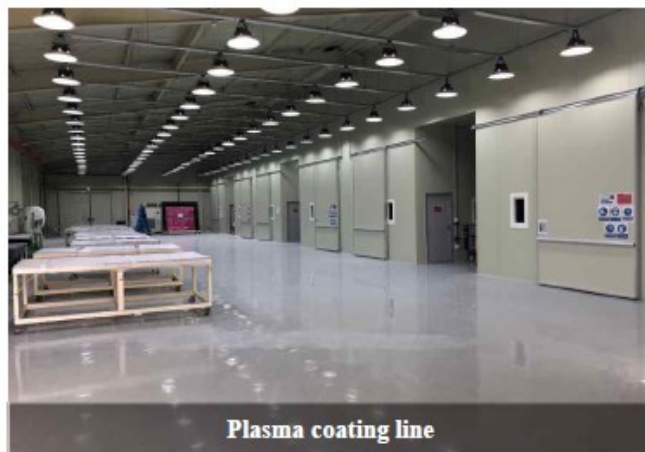
2012.06 通過 ISO 9001:2008

2011.01 成立凱勒斯科技

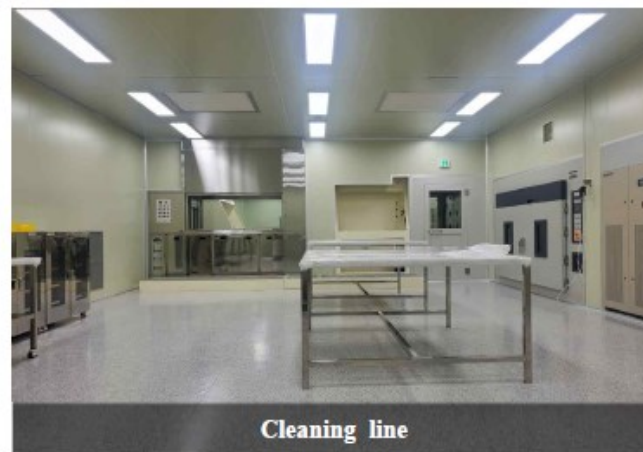
產線介紹



Powder manufacturing line



Plasma coating line



Cleaning line

1. Powder Manufacturing Line

- Manufacturing Technology
 - Mixing, Milling, Spray Dryer, Heat Treatment
- Manufacturing Items
 - Y_2O_3 , $Y_2O_3 + ZrO_2$, $Y_2O_3 + Al_2O_3$, $Y_2O_3 + SiO_2$
- Equipment Quantity
 - 2.5D 2 System, 2.0D 2 System, 1.5D 1 System
 - Heat Treatment Furnace 10 System
- Production Capability
 - 4.5 Tons A Monthly
- Applied Equipment
 - APS, SPS, AD

2. Plasma Coating Line

- Coating Technology
 - Plasma Spray, Arc Spray, Suspension Plasma Spray
- Manufacturing Items
 - Display Equipment Parts
 - Semiconductor Equipment Parts
 - Secondary Battery, Power Generation, Oil & Gas
 - Aerospace, Steel Industry, Automotive & Transport
- Number of Equipment in Possession
 - APS 15 System, SPS 1 System, Arc Spray 1 System
 - Bead Blast 2 System
- Production Capability
 - 60 Sets of Display Parts, 40 Sets of Semi. Parts

3. Cleaning Line

- Cleaning Technology
 - Wet, Dry, UV, Laser, CO_2
- Cleaning Items
 - Display Equipment Parts
 - Semiconductor Equipment Parts
- Cleaning Effect
 - Particle Removal, Oxidative Film Removal
 - Removal of Metallic Impurities
 - Removal of Organic Matter
 - Roughness Formation, Extended Part Life
- Cleaning Materials
 - Ceramics, Si, SiC, Quartz, SUS, Al

DMW業務範疇



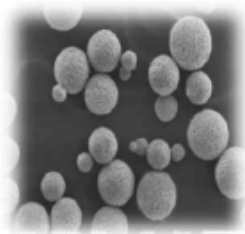
1. Thermal Spray Coating

- Atmospheric Plasma Spray Coating
- Arc Spray Coating
- Suspension Plasma Spray Coating



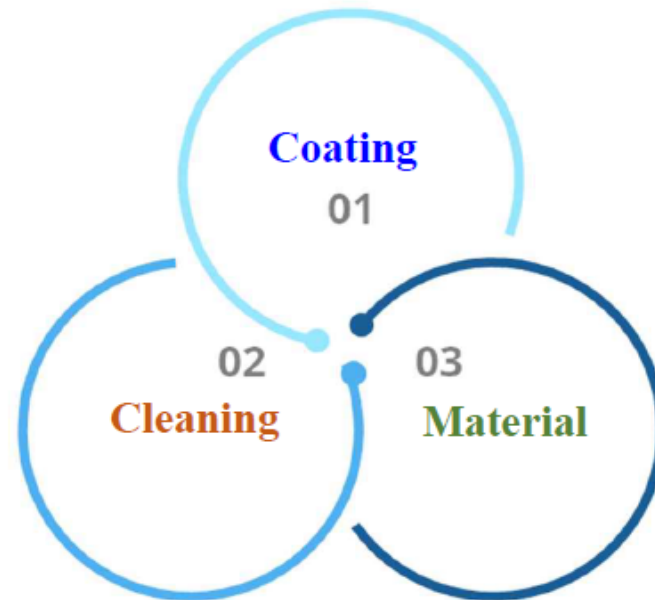
2. Cleaning Semi. and Display Parts

- Wet Cleaning
- Co2 Cleaning
- Dry Cleaning
- Laser Cleaning
- UV Cleaning



3. Localization of Coating Materials

- Y_2O_3 (APS) : Powder Size is $35\mu m$ Or $30\mu m$ Or $20\mu m$
- Y_2O_3 (SPS) : Powder Size is $1\sim 3\mu m$
- $Y_2O_3+ZrO_2$ (APS) : Powder Size is $30\mu m$
- $Y_2O_3+Al_2O_3$ (APS) : Powder Size is $30\mu m$
- $Y_2O_3+SiO_2$, YOF, YF_3 ...



凱勒斯代理

- Maximize Sale Through Horizontal Diversification
- Pursuing a Stable Profit Structure by Making Continuous Customer Satisfaction

DMW 產線介紹



Powder



- Localization of Powder for APS And SPS With High Quality
- Powder with 20% Superior Corrosion Resistance Against Plasma and Etching Gas
- Customer-tailored Powder Supply Available

- Spray Coating Available with Less Than 2% Porosity
- Reduce Surface Roughness to Reduce Particles in the Process
- Development of Coating Technology Based on Materials



Spray Coating



Cleaning



- Cleaning 99.9% on Semiconductor and Display Components
- Particulate Control of Shower Head
- Cleaning of Metal and Non-metal Parts of Brand New Processed Products

- Industry-Academic Cooperation with 'Chungnam' National University
- Customer-Tailored Powder Supply
- Development of New Coatings and New Powders



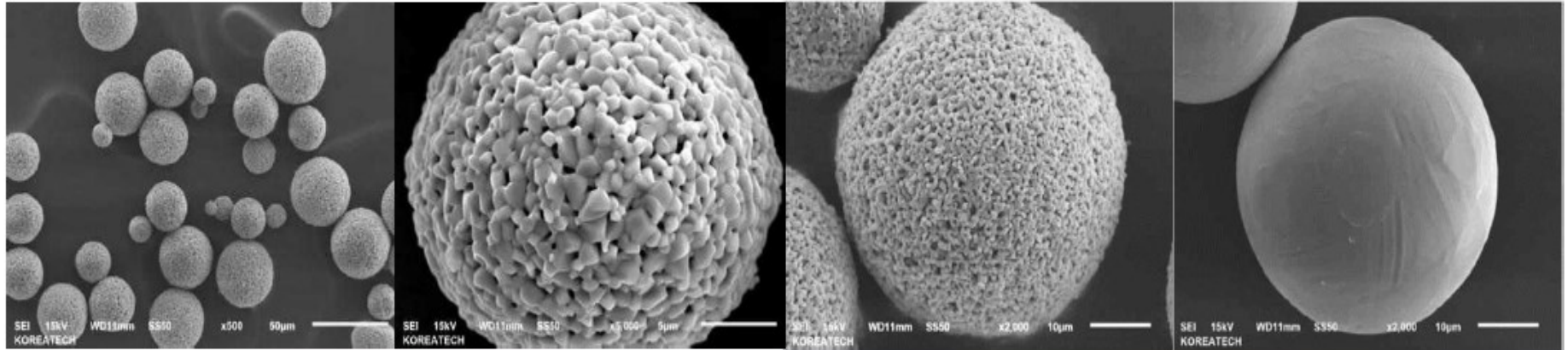
R&d



DMW 產力其行系科技(香港)有限公司

GALAXY®

DMW溶射粉末介紹



Powder for Coating Semiconductor and Display Equipment Parts

『 For APS, SPS, AD 』

DMW粉末製程



Powder Raw Material



Slurry Manufacturing

Mixing Powder and Solution



Slurry Aging

Powder Sizing and Dispersion of Slurry



Granulation

Drying and Spheroidization of Slurry

Granulation Powder Localized

- **Localization of Spray coated Powder with Excellent Plasma Resistance and Gas Etching Resistance in Semiconductor and Display Processes**
- **Increase Yield by Reducing Particle Levels in the Process**



Packaging



Final Testing & Inspection



Distribution

Size Screening of Granular Powder



Heat Treatment

Mechanical Strength of Granular Powder

DMW粉末技術

▪ Slurry - Mixing, Dispersing, Aging

- Slurry Viscosity.
- Powder Dispersion
- Temperature and Ph Of Slurry
- Powder Size
- Ball Size And Material Of Ball Mill

▪ Granulation - Drying and Spheroidization

- The Supply of Slurry
- Temperature of Slurry
- Rotation Speed of Atomizer
- The Temperature of The Equipment
- Pressure of Equipment

▪ Heat Treatment - Mechanical Strength

- Mechanical Strength Imparting
- Temp Parameter Control
 - ① An Expansion Section
 - ② Solid-phase Reaction Section
 - ③ A Contraction Section
 - ④ A Standing Section
 - ⑤ Cooling Section



粉末應用

해당 자료는 DMW 저작권보호로 불법 복제 할 수 없습니다.

Powder Sales List by Coating Equipment

- APS : Atmospheric Plasma Spray
- SPS : Suspension Plasma Spray
- AD : Aerosol Deposition

No.

01. APS Only

PY

- Size(D50) : 32~38 μ m
- Material : Y₂O₃

YZ

- Size(D50) : 27~33 μ m
- Material : Y₂O₃, ZrO₂

PYPT

- Size(D50) : 18~22 μ m
- Material : Y₂O₃

YAG

- Size(D50) : 27~33 μ m
- Material : Y₂O₃, Al₂O₃

YS

- Size(D50) : 27~33 μ m
- Material : Y₂O₃, SiO₂

PY20

- Developing

No.

02. SPS Only

PYS1.0

- Size(D50) : 1~3 μ m
- Material : Y₂O₃

PYS2.0

- Developing

No.

03. AD Only

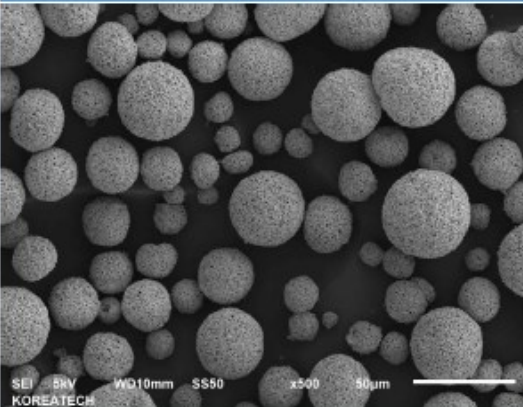
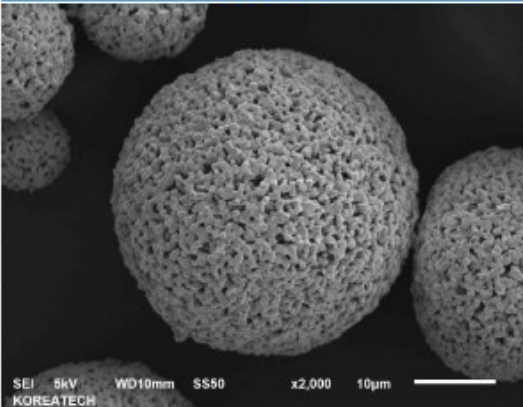
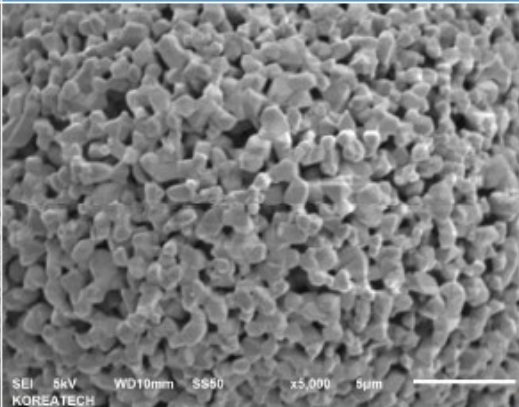
PYA1.0 (Spherical)

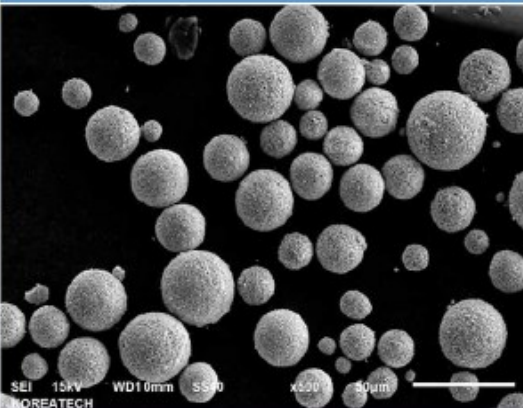
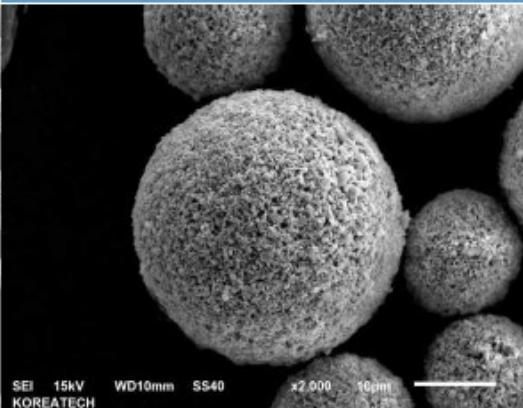
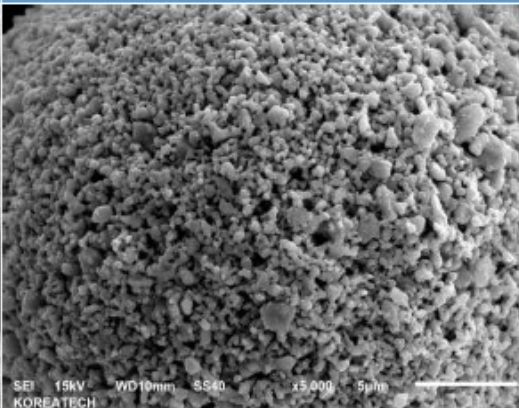
- Size(D50) : 1~5 μ m
- Material : Y₂O₃

PYA2.0 (Crystalline)

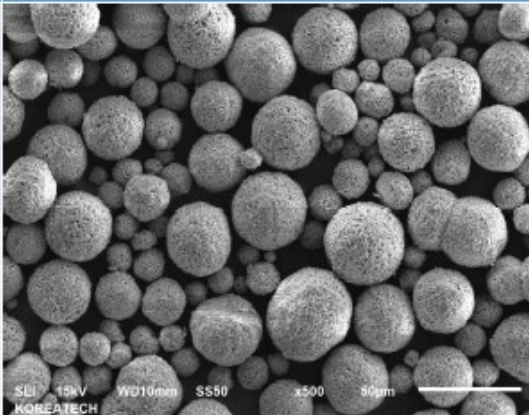
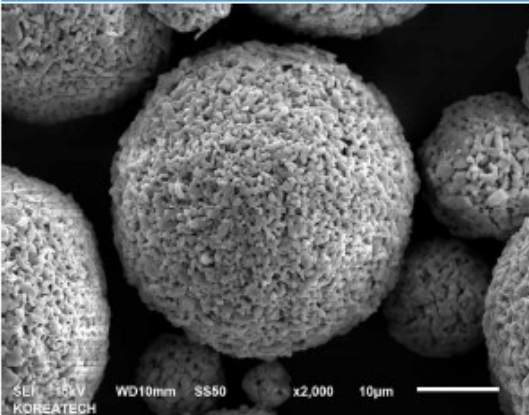
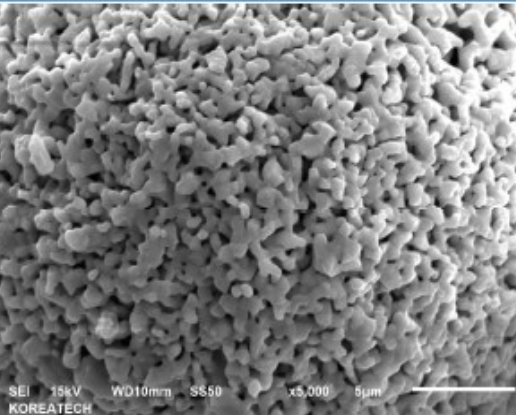
- Size(D50) : 1~5 μ m
- Material : Y₂O₃

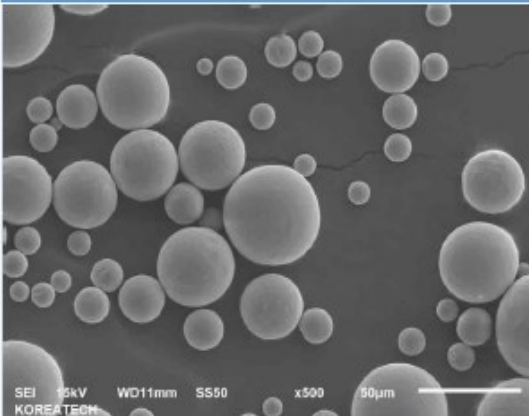
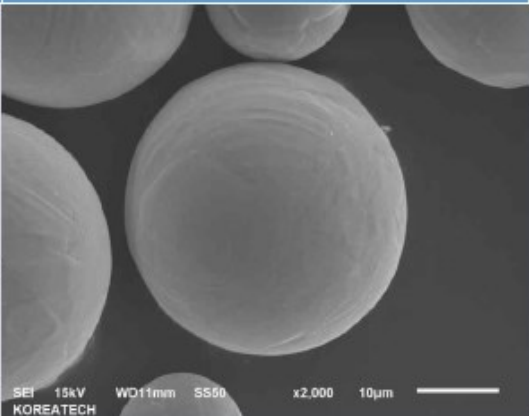
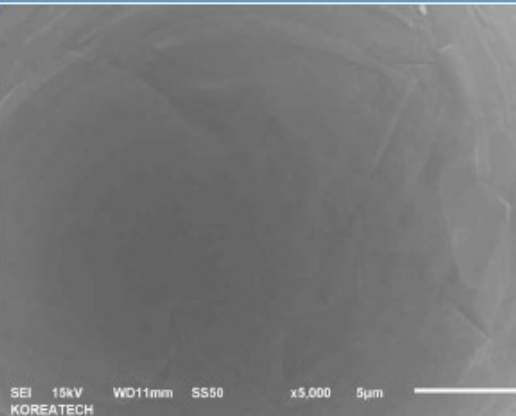
DMW粉末技術

$Y_2O_3(PY)$	X500	X2000	X5000
Particle Size(D50) 32 ~ 38 μm			
Tap Density 1.7 g/cm ³			

$Y_2O_3+ZrO_2(YZ)$	X500	X2000	X5000
Particle Size(D50) 27 ~ 33 μm			
Tap density 1.8 g/cm ³			

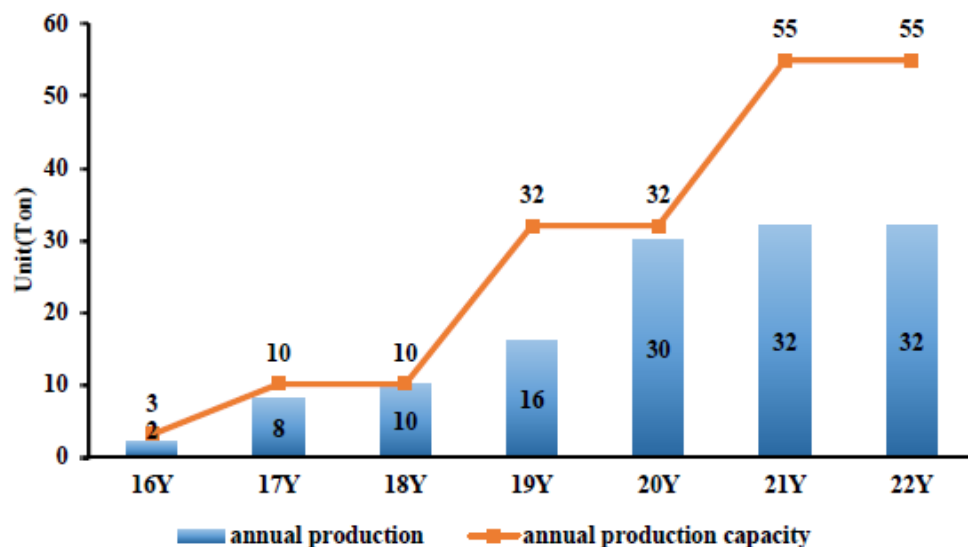
DMW粉末技術

$Y_2O_3+Al_2O_3$ (YAG)	X500	X2000	X5000
Particle Size(D50) 29 ~ 36 μ m			
Tap Density 1.5 g/cm ³			

Y_2O_3 (PYPT)	X500	X2000	X5000
Particle Size(D50) 18 ~ 22 μ m			
Tap Density 2.2 g/cm ³			

DMW粉末特性

Actual Annual Production and Annual Production Capacity



As Of 2022Y	Production	Production Capacity
Monthly	2.8 Ton	4.5ton
Yearly	32 Ton	55 Ton

	16Y	17Y	18Y	19Y	20Y	21Y	22Y
Actual annual production	2	8	10	16	30	32	32
Annual production Capacity	3	10	10	32	32	55	55
		Capa. Up		Capa. Up		Capa. Up	

Unit : Ton



Thank You for Your Cooperation

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