

Taiwan Maxwave Co., Ltd

INTRODUCTION OF DEFENSE & AEROSAPCE AREA
BY AVIATION INDUSTRIAL DIVISION (09.2024)



Who We Are

TAIMAX was founded in 1983 by Frank Yu. We are a **chemical manufacturer** providing innovative solutions and products in highly demanding sectors.

Our clients cover upper/middle/down streams of Chemical and Electronic Industries (700+ clients), Solar-Cell, Semiconductor IC, Water. Treatment, and Aerospace & Defense areas.

Capital 20 Million USD

Employees 125

Revenue(2022) 50 Million USD

404

Years

Innovation





Guanyin Research & Production Center



- Total of 14,800 m²
- Office &RD Building
 - R&D Application Lab
 - QC Lab
- Automatic Storage System & Warehouse A
 (30 meter in height, 3 aisles, 5076 storage units)
 - Mixing Production Line
 - Packaging Line
 - Chemical Storage
- Hazardous Warehouse
 - Warehouse B: Dangerous goods warehouse
 - Warehouse C: Explosion-proof warehouse
- Warm/Cold Storage



Milestone

Establishment & Agency

Manufacturer Branding

Global Development

1983	Established Taiwan Maxwave Co., Ltd.
1983	Represent Eastman Kodak (US)
1992	Sole agent: ISP (US)
1997	Sole agent: KMG Chemicals Corp (US)
2003	Ship-to-Stock certificate from TSMC
2003	Sole agent: OOC (JP)

Certificate

ISO 9001 ISO 14001 ISO 45001 AEO

2005	Local manufacturer - Taimax brand	2015	Sole agent: VISICONSULT and SGL(EU)
2006	ISO 9001:2000 quality system certified	2016	Sole Agent: ULTRACOR (US)
2007	Sole agent: Timcal (EU)	2017	Sole Ageng: HAYDALE (UK)
2008	GPMS green product system in place	2017	Best Distributor in ASIA of CARESTREAM NDT
2009	Establish QC laboratory	2018	Golden Reward by NCSIST
2010	Agent: Enthone (US)	2018	Sole agent: SEDAL Ceramic (ES) & NIDEK (JP)
2011	Sole agent: ECSC and Q-Pilon (JP)	2019	Park Aerospace and SAINT GOBAIN Quartz (US)
2012	Guanyin/Taoyuan factory grand opening	2020	Sole Agent: Arquimea (SP)
2013	Agent: APROS (KR)	2021	Sole Agent: Nitrochem (PL)
2013	Sole Agent: COMET X-Ray (CH)	2022	Sole agent: MESKO (PL)
2013	Sole agent: HITEC (NCBJ) (PL)	2023	Sole Agent: Avibras (BR)



TAIMAX Aerospace & Defense

Chemical company specialized in Materials, Nondestructive Equipment and Defense.

Partners with globally renowned manufacturers (selected) ☐ America: Ashland, SAINT-GOBAIN Quartz, Carestream, KMG, Park Aerospace, ULTRACOR etc. ■ Europe: COMET, SAINT-GOBAIN, IMERYS, SGL, VisiConsult, HITEC, NITROCHEM, HAYDALE, PGZ, etc. ☐ Asia: APROS, SAINT-GOBAIN, OCI, etc. □ Oceania: Kymera **Maintenance and Integrated Solutions Expertise**



NCSIST Golden Reward - Best Supplier 2018

• Total Taiwan Suppliers: 5000+

• Listed Qualified Suppliers: 1000

Golden Award: 6 Best Suppliers





National Chung-Shan Institute of Science and Technology Award Ceremony



QC Labs & Research and Develop Team























Automatic Warehouse & Mixing/Refilling Plant















Electronic Chemicals











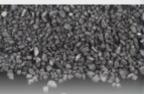






Advanced Materials







Aviation



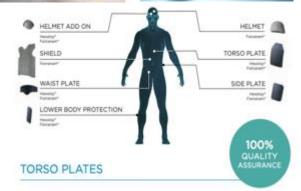




Advanced Materials (Military Related Products)



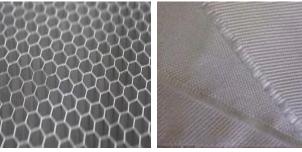




Special Products & Military Applications

- Amour Applications (Body, Vehicle, Aircraft)
- Ceramics
- Quartzes Fiber/ Veil / Yarn
- Honeycomb board
- Nitride-bonded SiC
- Directly sintered SiC
- Iron Powders (EMI/RFI, Cores, Toroid,
 Metal injection molding)
- Carbon fiber / Prepre
- Special Military Chemicals
- Special Functional Materials(Plasma Reactor)











STANAG 4569 Level 6 condition



The STANAG 4569 level 6 comprises the 30X165 AP-T and 30x173 ADSPFS-T sabot rounds that have a capability to penetrate up to 116mm conventional steel armour.

NATO STANAG 4569 Level 6 from 27,5-72,5° NATO impact angles



New composite armour solution that combines metallics, ceramics, and fibre materials to optimize the ballistic performance for a NATO STANAG 4569 Level 6 solution



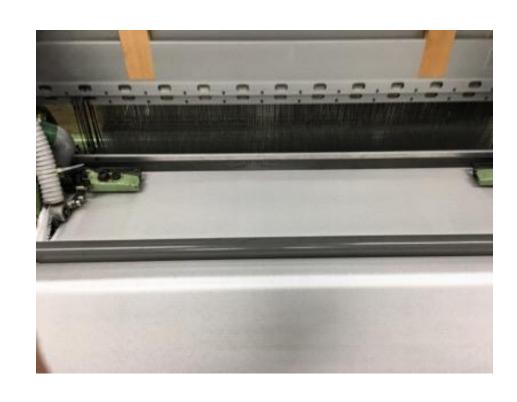
Quartz Fabric for Drone & Training Craft







Quartz Fabric for Drone & Training Craft







Quartz for Navy application



- Our quartz is qualified in Japan on this UNICORN dielectric mast.
- Thanks to its superior dielectric and mechanical performance.
- The ability of quartz to operate at all frequency allows some flexibillity in the design which is also a plus.

YouTube:

https://www.youtube.com/watch?v=-VbbrmAKZnA



Quartz for Navy application





- Saint Gobain's Quartzel® yarn is used to produce Thermal Protection Systems (TPS) used as launching pads in various Navy.
- Its ability to resist not only extremely high temperature but also it excellent durability.

YouTube:

https://www.youtube.com/watch?v=YRptBzvvfPk



Electronic Chemicals











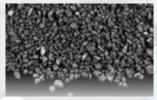






Advanced Materials







Aviation Industry









Military & Aviation Client List (selected)

Government & Military

- NCSIST
- ITRI
- Air Force
- Arsenal

Civil Aerospace

- AIDC
- AvioCast
- NFT
- EGAT
- Aerowin
- Global Tek
- GEEVERGREEN

Other Industry

- FROCH Enterprise
- Advanced Group
- Formosa Petrochemical Corp.
- Fusheng Precision

Power Plant

- Taiwan Power Company
- Nuclear Power Plant

Selected Client List

















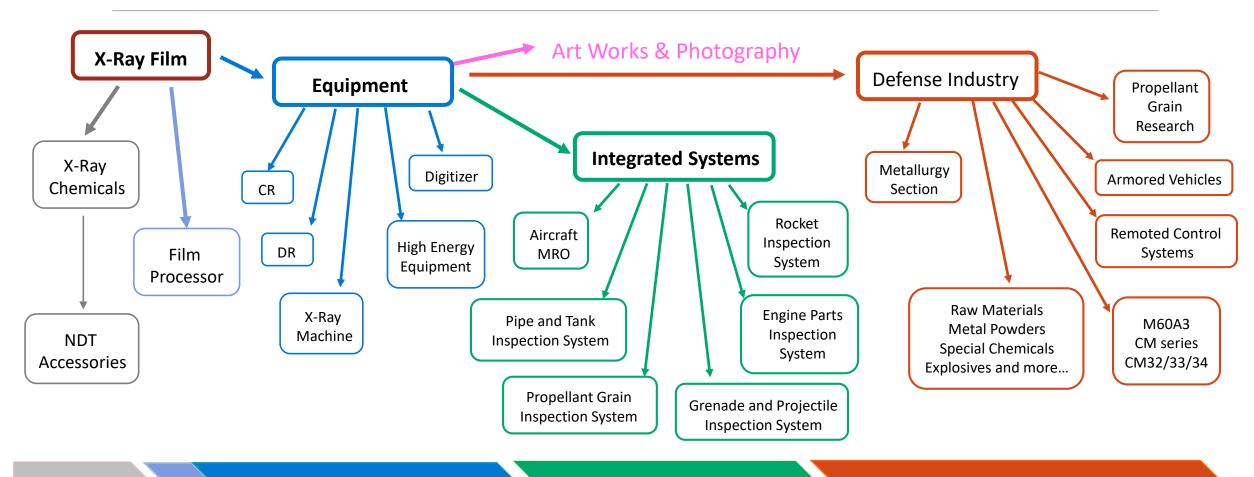








Aviation Industry Evolutionary Tree (by Products)



Consumable Business

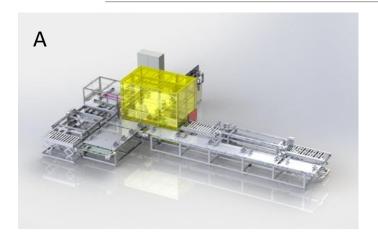
Device & Equipment Business

Integrated Solution

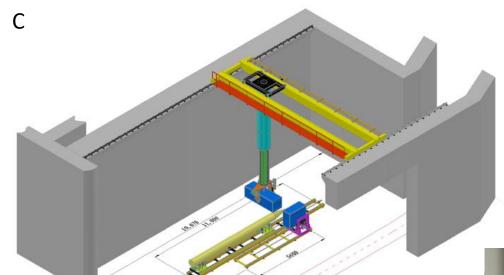
Energetic Materials & Special Needs

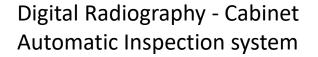


TAIMAX Design & Maintenance Team















Products and Integrated Solution Provider

Consumables

- X-ray films
- Chemicals
- NDT Accessories

Equipment

- X-ray machine
- Film processor
- CR system

- DR panel
- Film digitizer

Integration system Total Solution

- Customed Design
- CT system
- Integration Case Study Training Services
- RT inspection system
 - ► Film solution ►DR solution
- ► CR solution
- ► Automatic / Semi-automatic inspection line

Energetic Materials Special Needs

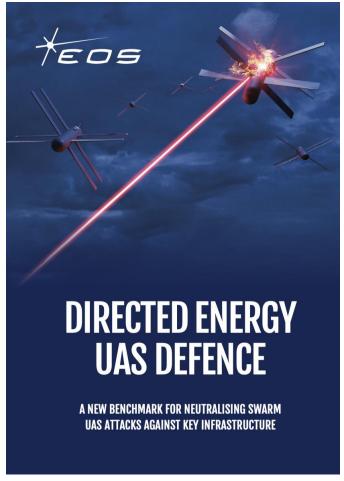
- Explosives
- Special Chemicals
- Pyrotechnic compositions
- Remote Control Systems
- Special Military Materials and Equipment

- Propellants
- Ceramics



Our Future with EOS







Our Future with EOS

R150



Light weight

Precise

Long Range

M2HB 12.7mm HMG or 0.50 Cal capable

R400



Reliable

Flexible

Powerful

Mobile engagements up to 2km with 30mm x 113mm lethality is now a reality

INTEGRATION

The R400 has been integrated onto a wide range of protected and open topped vehicles as shown below.



Platform Integration

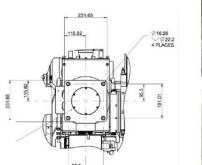
Platform integration is quickly and simply achieved via a four bolt plate mount as shown right and via one electrical connector (excluding the M230LF cannon which requires two electrical connectors).

The Below-The-Roof elements comprising the Control Group are located in spare spaces within the vehicle in order to not impact vehicle operation and personnel movement.

Platform integration also assumes the



- Vehicles will be made available for survey and analysis by an EOS engineering team.
- CAD data on the vehicle will be made available for the conduct of computer based Finite Element Analysis.



4 Bolt Pattern Interface



HDT Hunter Wolf UGV



