

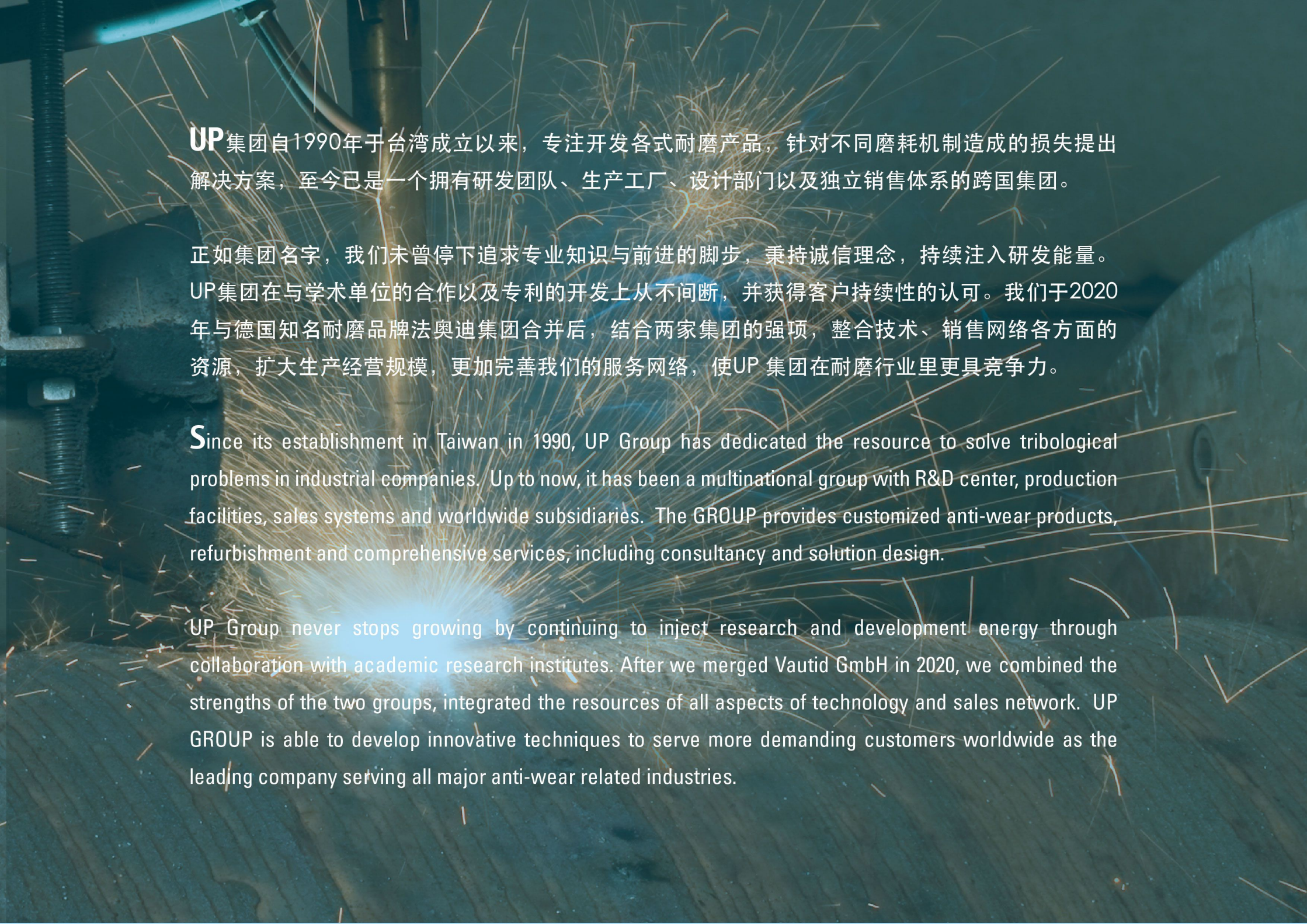


UP  
Plate

優靚耐磨

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A background image showing a close-up of a grinding process. A metal workpiece is being ground by a rotating tool, creating a dense spray of bright orange and yellow sparks that radiate outwards. The scene is dimly lit, with the primary light source being the sparks themselves, creating a dramatic, industrial atmosphere. The background is a dark, textured surface, possibly a machine bed or another part of the equipment.

**UP**集团自1990年于台湾成立以来，专注开发各式耐磨产品，针对不同磨耗机制造成的损失提出解决方案，至今已是一个拥有研发团队、生产工厂、设计部门以及独立销售体系的跨国集团。

正如集团名字，我们未曾停下追求专业知识与前进的脚步，秉持诚信理念，持续注入研发能量。UP集团在与学术单位的合作以及专利的开发上从不间断，并获得客户持续性的认可。我们于2020年与德国知名耐磨品牌法奥迪集团合并后，结合两家集团的强项，整合技术、销售网络各方面的资源，扩大生产经营规模，更加完善我们的服务网络，使UP集团在耐磨行业里更具竞争力。

Since its establishment in Taiwan in 1990, UP Group has dedicated the resource to solve tribological problems in industrial companies. Up to now, it has been a multinational group with R&D center, production facilities, sales systems and worldwide subsidiaries. The GROUP provides customized anti-wear products, refurbishment and comprehensive services, including consultancy and solution design.

UP Group never stops growing by continuing to inject research and development energy through collaboration with academic research institutes. After we merged Vautid GmbH in 2020, we combined the strengths of the two groups, integrated the resources of all aspects of technology and sales network. UP GROUP is able to develop innovative techniques to serve more demanding customers worldwide as the leading company serving all major anti-wear related industries.

# MILESTONES

# 里程碑



1990

UP was established and have "Hardfacing" technology transfer from Kurimoto, Ltd. in Japan.  
公司成立并获得日本栗本株式会社之KSW硬面堆焊技术授权

1993

Taiwan's largest hard-facing manufacturer  
成为台湾最大之耐磨堆焊专业厂家

1996

UP-Plate technique was self-developed.  
成功开发UP-Plate 工艺

2000

Globalization  
拓展海外市场  
产品营销三十余国

2005

Suzhou U.P. Wear Resistance Compound Materials CO., Ltd. Established.  
成立苏州优露耐磨复合材料有限公司

2011

Phase 2 workshop established in Suzhou.  
苏州厂二期厂房启用  
奠定现有产能规模

2013

UP Headquarter changed its name to "UP Sciencetech Materials Corp."  
台湾总公司更名为优频科技材料股份有限公司

2020

UP Group merged with VAUTID GmbH  
a well-known company in Germany  
优频集团合并德国法奥迪集团

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# WORLDWIDE SERVICE

# 全球服务



UP PLATE  
VAUTID

  
APPLICATION  
ENGINEERING  
技术服务

  
HARDFACING  
MATERIAL  
焊材

  
WEAR PLATES  
耐磨板

  
HARDFACING  
SERVICE  
堆焊服务

  
CAST  
PRODUCTS  
铸件

# 耐磨焊材

Hardfacing Welding Consumables

UP 集团贩卖的焊丝皆由自家焊丝厂生产，以稳定质量为首要方针，所有原料均经过严格检验与保存，每批焊丝出厂前亦需接受焊接测试，确认成分和性质符合标准。

特殊的焊丝装桶技术使焊丝在连续焊接时更加流畅，此外我们也提供线圈式包装。主要产品包含明弧药芯焊丝、埋弧药芯焊丝及硬面焊条。

UP welding wires are entirely manufactured in our wire factory. Main products are open arc flux cored wires, submerge arc flux-cored wires and hardfacing welding electrodes.

We provide suitable packaging for these products in order to fit their application environment. We always fully inspect the incoming raw materials and outgoing products to ensure our quality in consistency.



# 耐磨板

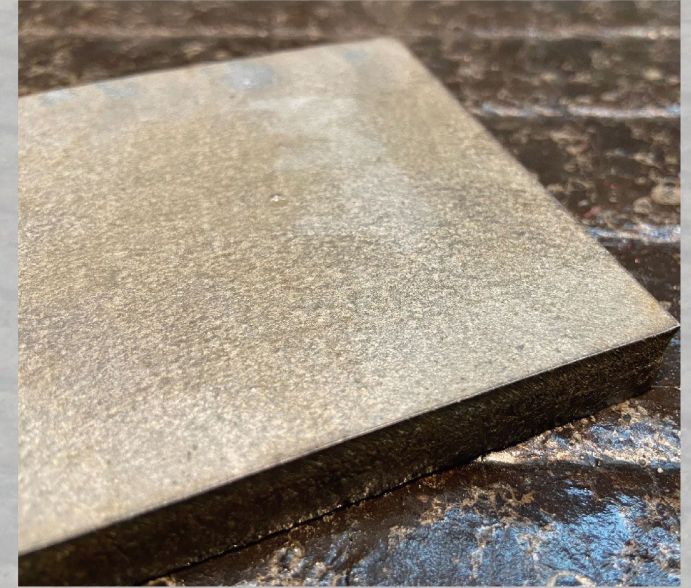
## Composite Wear Plates

“UP Plate”是UP集团以硬质碳化物析出强化理论为基础，利用堆焊工法独立设计开发的复合耐磨板并注册为商标。

复合耐磨板由硬面与母材两种材料经冶金结合而成，硬面层保护设备减少磨耗损失，母材则用来支撑硬面且赋予耐磨板可加工性能。硬面和母材材质皆有多种选择，顺应不同业界使用环境。

Based on the theory of carbide precipitation hardening, UP Plate, a composite wear plate, is developed to protect the machinery and equipment from demanding abrasive wear.

Using hardfacing technique, UP Plate is composed of hard layer and a weldable base plate which means the wear plate can be installed easily, both materials can be changed according to the demand.



### 耐磨板种类 Classification

种类 Type	特性 Characteristics	尺寸 Size/mm
UP-X 碳化铬析出硬化型	适用于一般磨耗环境 Chromium carbide hardened wear plate for general wear situation	1200 x 2400 1500 x 3000 2200 x 3000
UP-N 晶粒细化型	适用于重度磨擦磨耗环境 Fine grain wear plate with extremely high abrasion resistance	
UP-H 含耐火元素多元碳化物析出硬化型	可抵抗高温磨耗。 With refractory elements against abrasive wear at high temperature	
UP-I 多元碳化物析出耐冲击型	适用于冲击性更高的磨耗环境 For general wear situation accompanied with high impact	600 x 1000 max. 600 x 1000 max. 1400 x 2800 max.
UP-T 等离子制程碳化钨耐磨板	适用于极度严苛的磨擦磨耗环境。 PTA process with tungsten carbide contain	
UP-F 等离子制程超薄耐磨板	设备轻量化首选。 PTA process for the purpose of weight reduction.	
UP-S 最先进工艺无焊道耐磨板	表面平整, 无肉眼可见裂纹, 适用于易沾黏的磨耗环境。 Smooth surface without beads and visible cracks against adhesion and abrasion.	

特殊尺寸可定制 The dimension can be customized.

# 冷作件

Fabrication

耐磨管为冷作主要生产项目之一，分为无缝及有缝两种样式，与耐磨板一样，是将硬面堆焊在母材上的复合结构。

UP耐磨板与耐磨管拥有出色的可加工特性，能通过裁切、钻孔、卷制、焊接等工法制作各种型式的耐磨产品。冷作车间设有70吨行车，亦可满足大型制作工件需求。

Seamless and seam wear pipes which have structural similarity to composite wear plates are one of our main products.

Excellent formability makes wear plates and pipes available to be formed to a vast array of anti-wear products. Equipped with a 70-ton crane, UP fabrication factory can produce large components of heavy equipment.



# 硬面堆焊

Hardfacing Service

硬面堆焊是一种表面处理技术，将硬质材料融覆在设备表面隔绝外界侵蚀从而达到延长设备使用寿命的目的。

堆焊车间新制品以及旧品修复采用一贯作业，热处理、机械加工、硬面堆焊和检验均在厂内完成。加上UP完整且专业的施工团队，提供客户端在线服务，可同时满足时效上及质量上的需求。

Hardfacing is a surface treatment technique to add a protective hard layer on the surface of certain parts to achieve a lifetime extension.

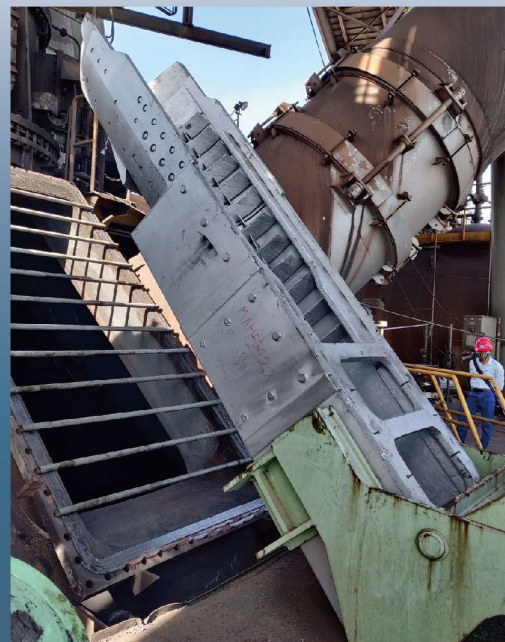
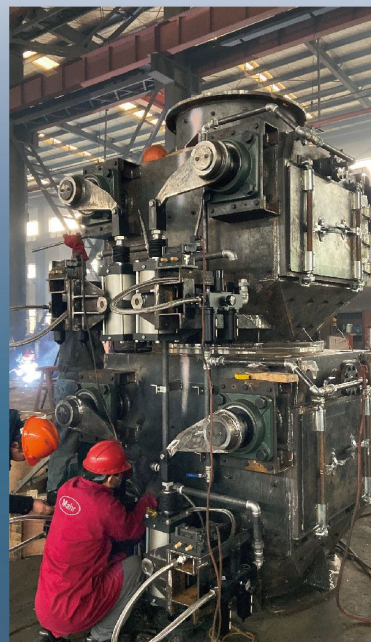
Considering major aspects such as being eco-friendly and cost effective, the hard layer is designed to be refurbishable. UP factory can provide in-plant and on-site repair to reduce down time. UP GROUP is capable to repair and install equipment on site as well as repair and provide the in-situ welding service.





# APPLICATIONS

# 实绩



正派经营 | INTEGRITY

志同道合 | TRUSTWORTHY

同甘共苦 | SHARING



# UP Plate

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