

企业动态

OFFICIAL NEWSLETTER



目录关注

ARTICLE TITLE

一株茶花，一份肯定，一份责任——佛山市委、市政府向
齐力澳美赠送纪念山茶花树

PMI Receives Commemorative Camellia from Foshan Municipal Party Committee and
Municipal Government

客户的一句“了不起”，是体系落地最真实的勋章

A Client's "Truly Impressive": The Ultimate Proof of Systems in Action

齐聚校企智慧 共话质量工程

Quality and Reliability Engineering Guest Lecture at UTAR

碳边境调节机制

Why Does It Matter to Us? Carbon Border Adjustment Mechanism





一株茶花，一份肯定，一份责任——佛山市委、市政府向 齐力澳美赠送纪念山茶花树

近日，佛山市委、市政府向为佛山经济发展作出突出贡献的企业赠送纪念山茶花。作为扎根佛山多年的制造业企业，齐力澳美荣幸获赠，政府代表专程来到公司，与公司管理层及员工代表共同种下这株象征认可与期许的山茶花树。

政企同心，共植绿色希望

活动当天，政企双方代表共同挥锹培土、扶苗浇水，将茶花树苗稳稳植入沃土。山茶花树四季常青、花姿雍容，象征着坚韧不拔与生生不息，与齐力澳美多年来深耕实业、稳健发展的企业气质高度契合。

一株茶花，承载着三重深意：

一份肯定——这是市委、市政府对齐力澳美扎根佛山、为地方经济发展作出贡献的官方认可；

一份责任——植树之举，亦是城市可持续发展的接力棒交予企业，提醒我们不忘实业初心，持续回馈社会；

一份承诺——以树为证，齐力澳美将继续与佛山这座城市同呼吸、共命运，在制造业高质量发展的道路上稳步前行。



扎根佛山，荣誉属于每一位澳美人

我们扎根佛山多年，能够获得这份来自政府的肯定，是公司全体同事长期共同努力的成果。从生产一线到管理后台，从技术研发到市场开拓，每一位澳美人的坚守与付出，共同铸就了企业今天的口碑与地位。

荣誉属于团队，责任也属于我们。这份“绿色荣誉”不仅属于公司，更属于每一位为之奋斗的澳美人。

践行ESG，与城市共成长

此次赠树活动，不仅是一次政企关系的温情互动，更与齐力澳美持续推进的ESG（环境、社会及公司治理）理念深度呼应。

在环境（E）维度，种下山茶花树是我们对自然生态的郑重承诺。正如这一抹新绿，齐力澳美始终将节能减排、绿色制造贯穿于生产运营各环节，通过工艺优化与资源循环利用，不断降低环境足迹，让“双碳”目标在每一次具体的行动中落地生根。

在社会（S）维度，齐力澳美的每一步成长，都与佛山的社区、员工和合作伙伴紧密相连。从完善员工关怀体系到参与社区公益建设，从创造就业到回馈邻里，努力让齐力澳美的发展成果惠及更多人，成为一家有温度、受尊敬的制造企业。

在公司治理（G）维度，齐力澳美坚持合规经营、稳健治理，以透明高效的决策机制保障企业可持续发展，为股东、员工及社会创造长期价值。

一株茶花，是起点，而非终点。

茶花初栽，根扎沃土，来日必将枝繁叶茂、花开满树。

佛山的土壤给了齐力澳美生长的根基，而我们的每一步前行，也在为这座城市的制造业版图添上一笔实业的底色。政企之间，本就该如此——彼此滋养，彼此成就。

愿这株山茶花，与齐力澳美一同，在佛山的土地上向下扎根，向上生长。

撰写：祝宇琪



PMI Receives Commemorative Camellia from Foshan Municipal Party Committee and Municipal Government

FOSHAN, China – The CPC Foshan Municipal Committee and the People's Government of Foshan Municipality have presented a commemorative camellia tree to PMI in recognition of the company's contributions to the local economy. Government representatives visited PMI's facilities to plant the tree alongside the company's management and employee representatives.

The camellia stands on three meanings. It is a recognition—an acknowledgment from the municipal government of PMI's years of dedication to Foshan's development. It is a responsibility—a reminder that being rooted in this city means giving back through real industry and sustained effort. And it is a commitment—a pledge to grow together with Foshan, through good times and challenges alike.

PMI has been rooted in Foshan for many years. This recognition, the company emphasized, is the result of the collective perseverance of every employee—from the shop floor to the back office, from engineering to the market front. "Honor belongs to the team, and so does the responsibility," the company said.



The gesture also resonates with PMI's ongoing ESG commitments: advancing green manufacturing and energy efficiency, caring for employee wellbeing, engaging with the local community, and maintaining transparent, accountable governance.

To do solid manufacturing, no grand words are needed. Making every product with integrity, putting people at the heart of the business, and embedding environmental and social responsibility into daily operations—that is how PMI repays this city's trust

May this camellia take root downward and grow upward, together with PMI, on Foshan's soil.

Author: Zoey Zhu

客户的一句 “了不起”， 是体系落地最真实的勋章



跟大家分享一个现场小故事。

前几天客户到宜新参观。当宜新的管理人员向客户介绍自动化设备如何进行质量监控、问题识别以及预防措施时，客户一直认真地听着、看着。介绍结束后，客户没有讲太多话，只说了一句：“了不起。”

这三个字看似简单，但背后代表的是客户对我们管理水平、质量体系和现场执行能力的认可。很多时候，我们觉得体系建设、标准化管理、自动化投入好像看不到直接效益。但当客户真正走进现场时，他们看到的不是我们的文件，而是我们的管理水平；不是我们的口号，而是我们的执行结果。

结合宜新的经营数据，这份坚持有了最直观的印证：

2025年质量索赔占出货总额的比例约为0.0008%；

2026年截至8月份，实现零质量索赔。

这些成果不是偶然得来的，而是长期坚持体系建设、标准化管理和持续改善所积累出来的结果。

我一直认为：客户不会因为我们拥有完善的各项质量认证证书而下订单，客户会因为相信我们的体系能够持续稳定地交付质量而选择我们。体系建设的价值，不是在审核那一天体现，而是在客户认可、市场竞争和经营结果中体现。当客户说出“了不起”三个字的时候，他认可的不是一台设备，而是整个团队多年来坚持把事情做对、把标准做好、把体系落到现场的努力。

给宜新团队点赞，也希望所有团队继续努力！

体系不是成本，体系是竞争力；标准化不是负担，标准化是企业持续成长的基础。

撰写：林廷鑑

A Client's "Truly Impressive": The Ultimate Proof of Systems in Action



I'd like to share a quick story from the shop floor.

The other day, a client visited PMPT. As our management team walked them through how our automated equipment handles quality monitoring, issue identification, and preventive measures, the client listened intently, taking in every detail. At the end of the tour, instead of a long speech, they simply said:

"Truly impressive."

Those three words may sound simple, but they carry real weight. They're a direct reflection of the trust our clients place in our management standards, quality systems, and on-the-ground execution. We often wonder if the work we put into system building, standardization, and automation actually pays off. But when a client steps onto our shop floor, what they see isn't a pile of documents—it's our management philosophy in action. What they hear isn't a slogan on the wall—it's execution that's actually taking root.

The numbers from PMPT tell the same story:

2025 QUALITY CLAIM COSTS ACCOUNTED FOR APPROXIMATELY 0.0008% OF TOTAL SHIPMENTS.

THROUGH AUGUST 2026, THE COMPANY HAS ACHIEVED ZERO QUALITY CLAIMS.

That's not luck. It's the result of showing up every day and committing to system building, standardization, and continuous improvement.

I've always believed this: Clients don't place orders because we have ISO certificates. They place orders because they trust our systems to consistently deliver quality. The real value of system building doesn't show up on audit day—it shows up in client confidence, in market competition, and in the results we deliver.

When the client said "Truly impressive," they weren't just talking about a piece of equipment. They were recognizing the entire team's years of effort—doing things right, refining our standards, and making sure our systems are woven into how we work every day.

So let me give a big shout-out to the PMPT team. And to every other team: let this be a reminder to keep pushing forward.

Remember: A system isn't a cost—it's a competitive advantage. Standardization isn't a burden—it's the foundation for sustainable growth.

Author: Mr Lim Heng Kam

齐聚校企智慧 共话质量工程



为进一步深化校企合作、推动产学研融合，2026年8月，UTAR机械工程系"质量与可靠性工程"课程特邀PMB Aluminium的Dr. Lim Ying Pio，为该课程本科生带来一场精彩的企业客座讲座。本次讲座由Dr. Tan Eng Chang发起并主持，旨在搭建学术界与工业界之间的桥梁，帮助学生将课堂理论与产业实践紧密结合。

聚焦产业实践，贯通学术与应用

讲座伊始，Dr. Lim结合自身在PMB Aluminium的工作经验，系统介绍了铝挤压产业链的全流程——从熔铸、挤压到热处理与精加工，并着重讲解了各环节中的质量控制要点与冶金学原理，使学生对"质量工程"有了从课本走向工厂的直观认识。

践行绿色发展，引领可持续制造

在可持续发展方面，Dr. Lim详细阐述了Press Metal集团"建设绿色未来"的使命及其与ESG理念的协同，重点分享了三大举措：

- **推进循环经济与减排。**通过工业废料与消费后铝材回收利用，最大限度降低基础设施中的碳强度。位于巴生的PMB Aluminium工厂配备先进的双室熔炉（TCF），年再生铸棒产能达5万吨，是循环经济的标志性运营能力。
- **赋能清洁能源供给。**集团致力于为光伏（PV）太阳能支架和电动汽车（EV）领域提供精密铝部件，助力全球能源转型。
- **水电驱动的绿色冶炼。**上游电解工厂以可再生水电为主要能源，大幅降低原生铝的隐含碳排放，从源头践行低碳制造。

拥抱工业4.0与人工智能，打造智慧工厂

针对学生关心的数字化转型话题，Dr. Lim介绍了工业4.0与人工智能如何赋能挤压工艺的可靠性监控。他援引集团旗下的佛山数智示范工厂及砂拉越新建PMPV工厂为例，展示了高度自动化与机器人搬运系统的实际应用场景。

这些基于工业物联网的智能过程控制系统可实时追踪温度曲线，精准调控铸棒预热梯度、淬火速率和人工时效温度等关键变量，有效防止 Mg_2Si 析出相过早粗化等微观组织缺陷，确保产品在批量化生产中的抗拉强度和硬度的一致性。

互动热烈，共话职业发展

讲座现场气氛活跃，学生反响热烈。在互动问答环节，同学们围绕工业减碳路径、自动化过程控制及工程师长期职业发展等议题踊跃提问，他逐一予以深入解答，交流氛围浓厚。

鉴于Press Metal集团在巴生、汝来、民都鲁及海外市场的持续扩张，学生们对实习与毕业生岗位表现出浓厚兴趣。Dr. Lim表示，PMB Aluminium积极寻觅在机械工程、冶金及质量保证领域基础扎实的优秀人才，重点发展方向涵盖研发（R&D）、持续改善（集成AI与机器人技术）及精密模具设计等。



结语

本次讲座作为"质量与可靠性工程"课程的重要实践补充，有效延展了课堂教学的边界。Dr. Lim将核心学术概念与可持续生产标准、工业4.0前沿应用有机融合，既丰富了Dr. Tan的课程教学内容，也为学生提供了观察现代制造业工程实践的真实视角。这标志着UTAR与Press Metal集团在校企合作道路上迈出了又一步坚实步伐。

撰写：Dr. Lim Ying Pio

Quality and Reliability Engineering Guest Lecture at UTAR



1. Executive Summary and Objectives

To strengthen university-industry collaboration, a specialized guest lecture was organized for Mechanical Engineering undergraduates enrolled in the Quality and Reliability Engineering course at Universiti Tunku Abdul Rahman (UTAR). Arranged under the invitation of Dr. Tan Wen Cheong, the session was delivered by Dr. Lim Ying Pio from PMB Aluminium Sdn Bhd.

Primary Objectives:

- **Theory-to-Practice Integration:** Bridge academic quality engineering theory with practical, industrial-scale manufacturing realities.
- **End-to-End Exposure:** Expose students to the complete aluminium extrusion value chain, highlighting rigorous quality control checkpoints and metallurgical principles.
- **Modern Industry Paradigms:** Address contemporary manufacturing imperatives, specifically sustainable development (ESG) and the deployment of Industry 4.0 technologies in heavy industry.

Key Outcomes: The lecture successfully achieved its goals, marked by strong attendance and an active Q&A session. Students demonstrated a thorough grasp of the materials presented, engaging in meaningful discussions regarding environmental impact mitigation, automated process control, and long-term engineering career pathways.

2. Speaker and Corporate Overview

The session was presented by Dr. Lim Ying Pio, representing PMB Aluminium Sdn Bhd (Extrusion Division). PMB Aluminium is a core downstream manufacturing arm of Press Metal Aluminium Holdings Berhad, Southeast Asia's largest integrated aluminium producer. The Group is operating with an annual capacity of 1.08 million tonnes of smelting and 230,000 tonnes of extrusion, the group served as an ideal case study of high-volume, quality-driven industrial operations.

3. Key Themes Discussed

3.1 Sustainable Development in the Aluminium Industry

With students showing keen interest in sustainable manufacturing and carbon footprint reduction, Dr. Lim detailed Press Metal's sustainability mission of "Building Greener Futures" alongside its strategic alignment with ESG principles:

- **Circular Economy & Emission Reduction:** Minimizing carbon intensity in built infrastructure through post-industrial and post-consumer aluminium recycling. The PMB Aluminium facility in Klang—featuring an advanced Twin Chamber Furnace (TCF) with a 50,000-tonne annual capacity for remelt billet casting—was highlighted as a key operational milestone.
- **Renewable Energy Supply:** Enabling the global energy transition by engineering precision aluminium components tailored for the photovoltaic (PV) solar racking and electric vehicle (EV) sectors.
- **Hydroelectric Smelting:** Utilizing predominantly renewable hydroelectric power across upstream smelting facilities, drastically lowering the embodied carbon of primary aluminium feedstocks.

3.2 Relevance of Industry 4.0 and AI

Addressing inquiries on digital transformation, the discussion explored how Industry 4.0 and artificial intelligence are modernizing extrusion reliability and process monitoring.

Dr. Lim referenced advanced group facilities—such as the Foshan Digital Intelligent Demonstration Factory and the new PMPV plant in Sarawak—which integrate extensive automation and robotic handling systems. These IIoT-enabled process control systems continuously track thermal profiles in real time, governing critical variables including billet preheating gradients, quench rates, and artificial aging temperatures. This data-driven control prevents microstructural defects, such as the premature coarsening of Mg₂Si precipitates, ensuring uniform tensile strength and hardness across commercial-scale production batches.

4. Student Engagement and Career Opportunities

Student reception was highly receptive, fostering an informative dialogue regarding industry pathways. Recognizing Press Metal's expanding operations across Klang, Nilai, Bintulu, and overseas markets, students actively enquired about internship opportunities and graduate roles.

Dr. Lim emphasized that PMB Aluminium actively seeks talent with solid foundations in mechanical engineering, metallurgy, and quality assurance. Key growth tracks highlighted include research and development (R&D), continuous improvement (integrating AI and robotics), sustainability engineering, and precision tooling design.



5. Conclusion

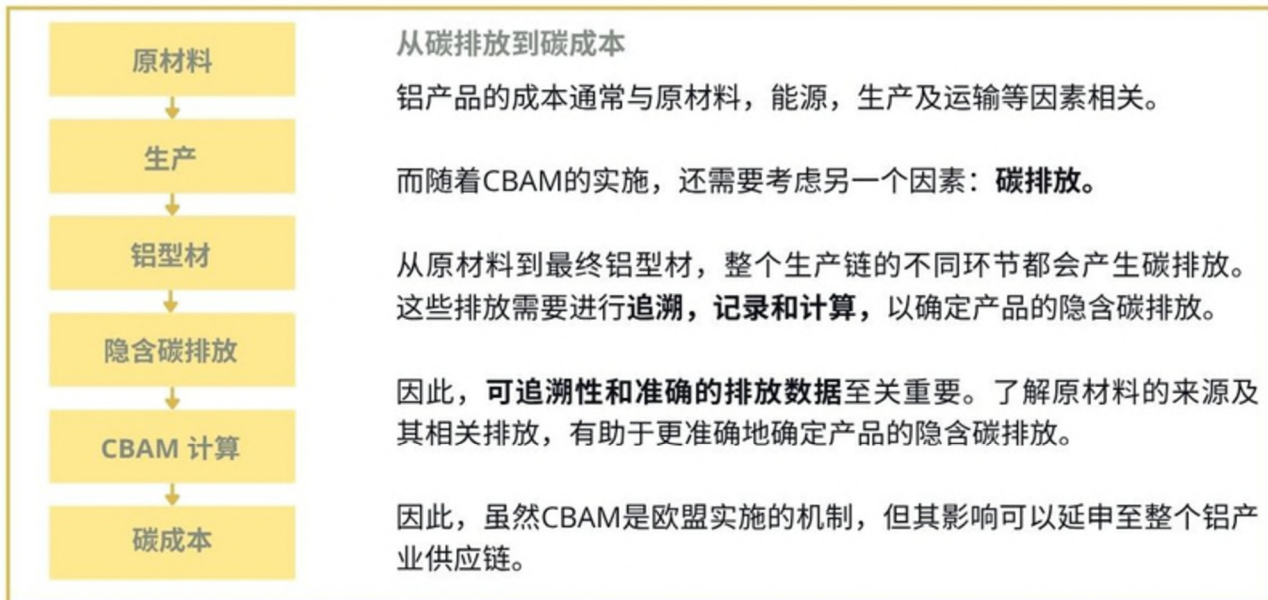
Dr. Lim Ying Pio's guest lecture served as a valuable practical supplement to the Quality and Reliability Engineering curriculum. By connecting core academic concepts with sustainable production standards and Industry 4.0 applications, the session enriched the course material taught by Dr. Tan Wen Cheong and offered students practical perspective on modern manufacturing engineering. The initiative marks another successful step in ongoing university-industry collaboration between UTAR and the Press Metal group.

Author: Dr. Lim Ying Pio

为什么与我们息息相关？

碳边境调节机制 (CBAM)

CBAM 是 Carbon Border Adjustment Mechanism（碳边境调节机制）的缩写，是欧盟（EU）推出的一项碳定价机制。简单来说，CBAM将碳排放纳入部分进口产品的贸易成本考量，其中包括铝产品。CBAM于2023年首次推出，并于2026年进入正式实施阶段，是碳排放成为出口欧盟企业日益重要的考量因素。



为什么我们的碳足迹很重要？

产品所对应的碳排放越低，其在CBAM下可能产生的碳成本也越低。因此，碳标线不仅是环境层面的考量，也可能逐渐成为影响企业业务及市场竞争力的重要因素。

这也是为什么一下措施正变得越来越重要：

-  **降低碳排放**
-  **提高能源效率**
-  **使用经过验证的低碳原材料**
-  **提高碳排放数据的准确性及可追溯性**

跨团队分享CBAM知识

为加强团队对CBAM的认识与理解，可持续发展小组近期为中国及马来西亚各实体的客服部门团队展开了CBAM分享会。

通过此次分享，团队能够进一步了解CBAM的相关要求，客户期望，以及提供准确，一致的信息的重要性。

展望未来

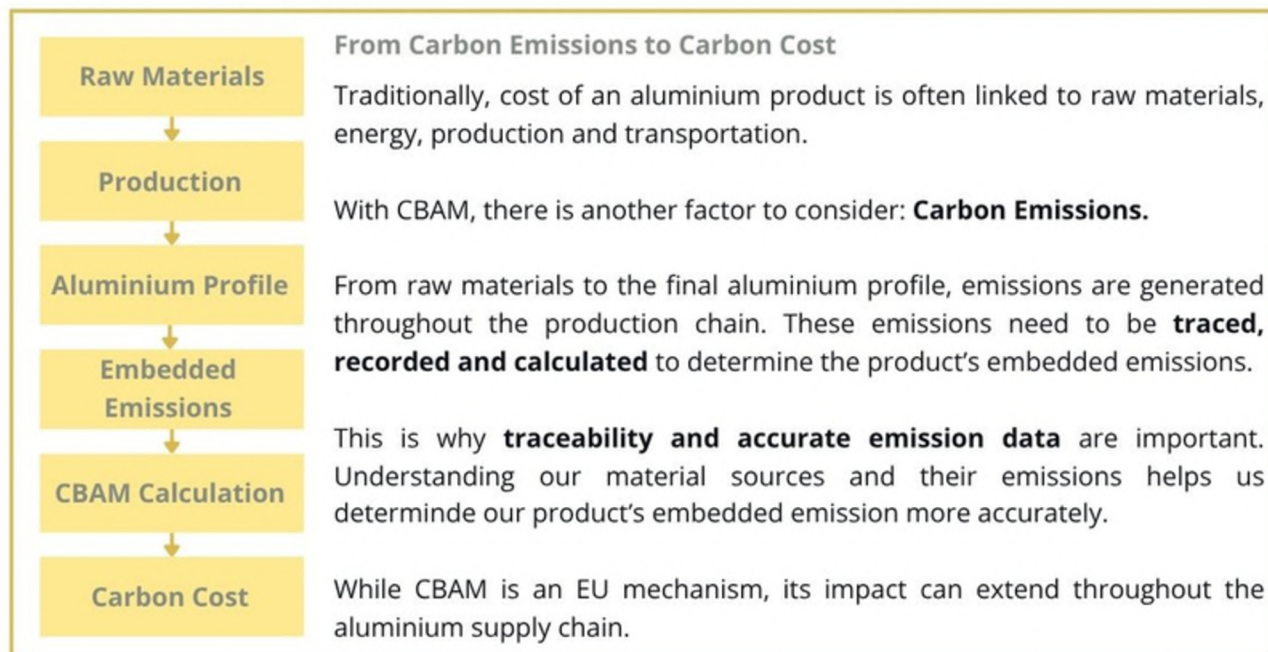
CBAM是可持续发展日益融入企业经营方式的其中一个例子。随着全球市场持续向低碳产品迈进，了解我们当前的碳排放情况，有助于我们为未来的市场要求做好准备。每一项脱碳行动都很重要，为每一项行动都应切实推动碳排放的减少。

撰写：Branda Yap

Why Does It Matter to Us?

Carbon Border Adjustment Mechanism

CBAM stands for Carbon Border Adjustment Mechanism, a carbon-pricing mechanism introduced by the European Union (EU) to address the carbon emissions associated with certain imported products, including aluminium. First introduced in 2023, CBAM entered its definitive phase in 2026, making carbon emissions an increasingly important consideration for business exporting to the EU.



Why Does Our Carbon Footprint Matter?

The lower the emission associated with a product, the lower its potential carbon cost under CBAM. This makes carbon performance not only an environmental consideration, but potentially a business and competitiveness consideration as well.

That is why these initiatives are becoming increasingly important:

-  **Reducing emissions**
-  **Improving energy efficiency**
-  **Using verified lower-carbon raw materials**
-  **Improving the accuracy and traceability of emission data**

Sharing Knowledge Across Teams

To strengthen awareness and understanding, the Sustainability Department recently conducted a CBAM sharing session with Customer Service team across China and Malaysia entities.

This session helps team better understand CBAM requirements, customer expectations and the importance of providing accurate and consistent information.

Looking Ahead

CBAM is one example of how sustainability is becoming increasingly connected to the way we do business. As global market continues to move towards lower-carbon products, understanding our emissions today helps us prepare for the expectations for tomorrow. Every decarbonization effort matters, and every action should contribute to meaningful carbon emission reductions.

Author: Branda Yap

以安全、设备、工艺“三升级”推动熔铸产线迭代

熔铸部一车间作为齐力澳美早期建成的核心产线，见证了公司从出口建材到消费电子铝材、再到汽车铝材的跨越式发展。随着高端产品对材料性能、纯度及安全环保要求的不断提升，老产线在设备能力、质量稳定性、生产效率及现场环境等方面的局限日益凸显。为此，公司正式启动一车间产线升级改造项目,逐步淘汰旧线。

存在问题分析

维度	现状描述
安全性	熔铸属高危行业，安全风险防控需持续加强；随着法规要求不断提升，现场安全防护措施需与时俱进，进一步筑牢安全生产防线。
质量稳定性	现有工艺存在一定波动，影响产品一致性；需结合新工艺、新标准持续优化，以更稳定地保障产品质量。
生产效率	自动化程度仍有提升空间，部分环节依赖人工；需顺应智能制造趋势，以技术升级带动效率稳步提升。
环境保护	现场灰尘等作业环境有待改善，关乎员工健康；需对标更高环保标准，持续打造绿色、清洁的生产现场。
工作负荷	部分岗位体力劳动强度较大，影响员工工作体验；需通过设备升级与流程优化，减轻负荷、改善作业体验。

本次改造定位为真正的产业升级，核心包含三大维度：安全升级、设备升级、工艺升级。新线将采用更先进的自动化控制系统，配备更完善的环保设施，从根本上提升产线的本质安全水平与工艺控制精度。

新线投产后，旧线将逐步退出历史舞台。届时，一车间将彻底告别“老伙计”，实现从高危、高耗能、高强度的传统熔铸模式向安全、稳定、高效的智能化产线转型。



新线的预计效果

改善方向	预期效果
安全	新设备安全防护更完善，结合机器人应用，大幅降低人员安全风险。
质量	设备稳定性和工艺精度提升，产品一致性和合格率显著改善。
效率	自动化程度提高，减少人工干预，整体产能和生产节拍优化。
环境	现场环境与健康水平提升，适配年轻一代对员工环境的要求。
工作量	新线工作量较旧线大幅降低，减轻体力劳动强度。

一车间新线预计今年10月投产，这不仅是设备的更新换代，更是澳美熔铸向自动化、智能化迈进的关键一步。未来，熔铸部还规划引入机器人，进一步减少人工作业风险，推动熔铸生产向“少人化、无人化”发展。

未来熔铸部将继续配合公司新材料研发战略，在汽车材、消费材料等高端领域深耕，以更安全、更高效、更环保的生产模式，支撑澳美铝业在行业中的技术领先地位。

撰写：祝宇琪

PMI Drives Melting & Casting Line Upgrade via Safety, Equipment, and Process Enhancements

Workshop 1, a core legacy line, has witnessed PMI's evolution from construction to high-end automotive and consumer electronics aluminum. Due to increasing demands on material purity and safety, the aging line faces limitations in capacity, quality stability, and efficiency. To address this, PMI has officially launched an upgrade project to phase out the old line.

Problem Analysis

Dimension	Current Status
Safety	Inferior safety protocols compared to new lines; high-risk environment (gas, high temp, heavy metals).
Quality	Significant process fluctuations; poor product consistency.
Efficiency	Low automation, high manual intervention, limited capacity.
Environment	Dust issues and poor design affecting health and experience.
Workload	High physical intensity, failing to meet modern workforce expectations.

Positioned as a true industrial upgrade, the project focuses on safety, equipment, and process improvements. The new line features advanced automation and environmental systems, fundamentally enhancing intrinsic safety and process precision.

Upon commissioning, the old line will be retired, transitioning Workshop 1 from a high-risk, labor-intensive model to a safe, efficient, and intelligent operation.



Expected Outcomes

Area	Expected Impact
Safety	Enhanced protections and robotics to significantly reduce personnel risk.
Quality	Improved stability and precision, boosting consistency and yield.
Efficiency	Higher automation reduces manual interference, optimizing capacity and rhythm.
Environment	Cleaner, healthier workplace aligned with modern standards.
Workload	Drastically reduced physical labor compared to the old line.

The new line is scheduled for October, marking a key step toward automation and intelligence. Future plans include robotics integration to achieve "unmanned" operations. This upgrade supports PMI's R&D strategy in high-end markets, reinforcing its technical leadership through safer, greener, and more efficient production.

Author: Zoey Zhu

Warmly Welcome Delegation of NS EXCO Member, UPEN and INVEST NS visiting PMI !



马来西亚 NS EXCO 代表团一行莅临 齐力澳美参观考察

近日，马来西亚 NS EXCO 成员代表团联合 UPEN 及 INVEST NS 莅临齐力澳美参观交流。公司管理层及相关部门负责人全程陪同接待。



代表团深入生产一线，实地观摩了熔炼、挤压至精加工等核心工序的运转情况，对齐力澳美成熟的工艺能力与稳定的制造水平给予高度关注。作为集团区域协同布局中的重要制造枢纽，齐力澳美依托一体化生产优势，持续为马来西亚工厂的汽车生产链提供关键技术支撑。



此次参观不仅彰显了齐力澳美的综合制造实力，更为后续产业协作拓宽了空间。公司将依托一体化生产优势，持续强化与兄弟单位的协同联动，为区域客户提供高价值的铝加工解决方案。



撰写：祝宇琪

Warmly Welcome Delegation of NS EXCO Member, UPEN and INVEST NS visiting PMI !



NS EXCO Delegation Visits PMI to Review Manufacturing Capabilities

A delegation comprising members of the NS EXCO, alongside representatives from UPEN and INVEST NS, recently visited PMI for a technical exchange, accompanied by PMI's senior management and relevant department heads.



The delegation toured the production floor to observe the operations of core processes, ranging from smelting and extrusion to precision machining. They expressed strong recognition of PMI's mature process capabilities and stable manufacturing standards. As a vital manufacturing hub in the Group's regional synergy strategy, PMI leverages its integrated production advantages to continuously provide critical technical support to the automotive supply chain of the Malaysia-based factories.



The visit highlighted PMI's comprehensive manufacturing strengths and broadened the scope for future industrial collaboration. Moving forward, PMI will continue to strengthen internal synergies to deliver high-value aluminium processing solutions to regional customers.



Author: Zoey Zhu

科技赋能智造系列——澳美高新车床倒角工艺自动化革新

由澳美高新数控事业部主导的“车床倒角工艺改双头自动倒角机”改善项目已落地实施。该项目通过将传统数控车床倒角加工升级为双头自动倒角专机，实现了套筒类零件倒角工艺的全面革新，在提升生产效率、降低运营成本、释放设备资源等方面取得了显著成效，是公司践行“科技赋能智造”理念的又一标志性成果。

倒角作为套筒类零件加工的关键工序，直接影响产品的装配精度与表面质量。此前，公司两款套筒产品均采用数控车床进行两端倒角加工，该工艺模式在实际运行中暴露出两大核心痛点：

- 设备投入高：数控车床作为通用加工设备，用于单一的倒角工序存在“大马拉小车”的资源错配问题，设备采购与折旧成本居高不下；
- 加工节拍慢：传统车床需分别装夹、逐端加工，单件两端倒角需两次装夹定位，重复定位误差难以避免，加工周期长，效率提升空间受限。

随着年订单量增加，传统工艺已严重制约产能释放，亟需突破。

针对上述痛点，数控事业部深入调研行业自动化倒角技术方案，结合产品结构特征与年产量的实际需求，确立了“以专用设备替代通用设备”的改善思路——引入双头自动倒角机替代传统数控车床进行倒角加工。

双头自动倒角机采用双主轴对向同步驱动结构，可实现套筒两端倒角的一次装夹同步完成，省去传统单头加工二次装夹的繁琐步骤；同时配备自动上下料装置，实现送料—送料—双头倒角—下料的全流程自动化作业，有效压缩单件加工周期，大幅减少人工干预。设备操作界面友好，参数设定便捷，换型调试时间短，具备良好的柔性适应能力。

改善后，单支材料倒角加工时间仅需约 9 秒，每小时产出高达 360 支，相较原车床加工效率提升数倍，产能瓶颈得到根本性突破。双头同步作业消除了二次装夹等待时间，加工节拍更加稳定，产品质量一致性显著提升。

本次改善验证了“专用设备替代通用设备”在批量化倒角工序中的可行性与经济性，为后续工艺优化提供了可复制的实践范式。接下来，数控事业部将持续评估更多倒角工序的拆分与专机化改造，探索前后工序自动化衔接，推动精益生产理念在制造各环节深入应用，持续创造降本增效新成果。



撰写：张汉强、祝宇琪

Tech-Driven Smart Manufacturing: PMIT Revolutionizes Chamfering with Dual-Head Automation

PMIT's CNC Business Division has successfully upgraded the chamfering process for sleeve parts by replacing traditional CNC lathes with dedicated dual-head automatic chamfering machines. This initiative marks a significant milestone in our "Technology Empowering Smart Manufacturing" strategy, delivering immediate improvements in efficiency and cost-effectiveness.

Addressing Core Bottlenecks

Previously, using general-purpose CNC lathes for simple chamfering tasks created two main issues:

- **Resource Mismatch:** High-value lathes were underutilized for single-purpose tasks ("using a sledgehammer to crack a nut"), leading to unnecessary depreciation costs.
- **Slow Cycle Time:** Processing both ends required separate setups and clamping, resulting in long cycle times and limited throughput.

The Automated Solution

To resolve these issues, the new dual-head machines feature a synchronized dual-spindle design that machines both ends of a sleeve simultaneously in a single clamping. Integrated with automatic loading and unloading systems, the process is now fully automated—from feeding to discharging—minimizing manual intervention and ensuring consistent quality.

Key Results

Cycle Time: Reduced to just **9** seconds per piece.

Output: Increased to **360** pieces per hour.

Efficiency: Multi-fold increase compared to the previous lathe process, effectively breaking production bottlenecks.

This project validates the economic viability of "dedicated equipment replacing general equipment" for high-volume processes. Moving forward, the CNC Business Division will continue to identify opportunities for specialized automation and lean manufacturing to drive further cost reductions and efficiency gains.



Author: Hanqiang Zhang 、 Zoey Zhu

每一次改善，都始于一个“为什么？”

在一次次提问、担当与实践，找到成长的方向。

人物专访- Kanaga

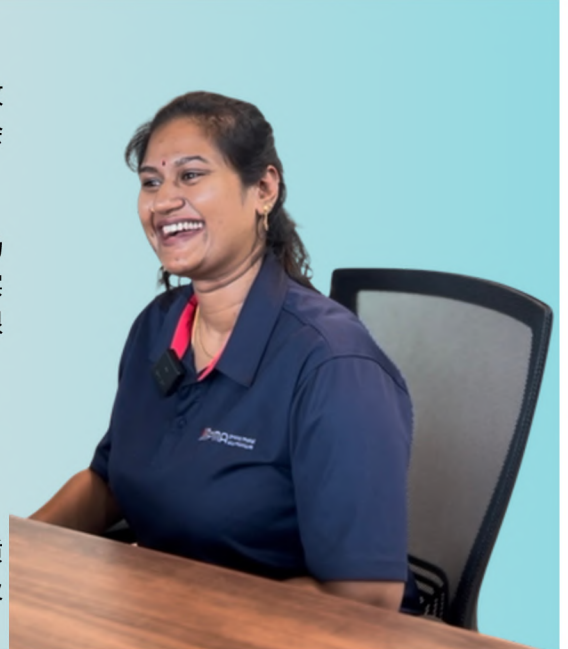
我曾经以为，自己会成为一名大学讲师。

刚加入 PMB Aluminium 时，我是一名助理工程师，同时也在攻读非全日制博士学位。那时候，我一直认为，未来的职业方向会是在学术领域。

但随着参与越来越多的持续改善项目，也开始真正面对生产现场的各种挑战，我慢慢发现，自己真正感兴趣的，其实是工程实践。我喜欢走近现场，了解问题为什么会发生，找出真正的根因，再想办法把工艺和流程做得更好。

后来，我调到熔铸车间。也正是在这里，我逐渐确定了自己真正想走的职业道路。

如今，作为铸造车间高级工程师，我主要负责熔炼、铸造及均质化工艺，并与不同部门协作，持续提升生产稳定性、铝棒品质及生产效率。



解决问题，只是第一步

刚开始工作时，我更多关注的是如何尽快把眼前的问题解决。

随着经验累积，我开始学会往更深一层思考：

为什么会发生？数据反映了什么？这真的是根本原因吗？我们怎样才能避免问题再次发生？

这个思维方式，也曾一次反复出现的黑棒缺陷问题中受到真正的考验。

几个月里，我们不断调整工艺参数、检讨操作方式，并与维修团队一起检查均质炉的运行状况，但问题依然存在。

于是，我们继续逐项排查可能因素，一步一步缩小范围，最终确认问题根源来自燃气燃烧配比异常。在相关参数完成调整后，问题才真正得到解决。

真正的答案，往往不在最明显的地方。

这次经历让我更加明白：

很多问题并没有一个显而易见的答案。真正重要的是持续追问、依据数据判断，并愿意跳出原有假设重新审视问题。

沟通很重要，团队协作同样重要

工程改善从来不是一个人的工作。

生产、维修、QA/QC，以及每天直接操作设备的一线同事，都从不同角度理解同一个生产过程。当这些经验和信息被放在一起，我们往往能够发现一些单靠数据无法看到的问题。

所以，我一直鼓励年轻工程师，不要只通过报告、数据或电脑画面去认识一个工艺。



到现场去看。

看看生产实际是怎样运行的，和操作员多交流，观察哪里存在等待、哪里容易出现波动、哪些细节其实还有改善空间。

有时候，在现场认真观察几个小时，得到的理解可能比单看一份报表更加直接。

不要只坐在电脑前研究工艺。走进生产现场、观察过程、和真正操作设备的人交流。

然后不断问自己：“为什么？”

成长，并不一定按照原本规划的路线发生

我的职业道路，并没有按照最初设想的方向发展。

后来，我决定暂停博士学位升学计划，把更多精力投入工作，也在不断累积实践经验的过程中，取得了专业技术师资格。

但如果要分享一件我认为真正重要的事，它并不是学历或资质本身。而是我们面对工作的方式。

主动担当，保持好奇，向身边的人学习，也永远不要停止追问“为什么”。

因为每一次改善，往往都始于一个最简单的问题：

“我们还能不能做得更好？”



Author: Branda Yap

Every Improvement Begins with “Why?”

A journey of curiosity, ownership and learning through every challenge.

Feature Interview- Kanaga

I once thought I would become a lecturer.

When I first joined PMB Aluminium as an Associate Engineer, I was pursuing a PhD part-time and still imagined my future in academia.

But as I became more involved in continuous improvement projects and real production challenges, I discovered something different. I enjoyed being close to the process, understanding why problems happened, finding the root cause and making things better.

After moving into the Cast House, that interest gradually became the career path I chose. Today, as a Senior Engineer, I support the melting, casting and homogenisation processes, while working with different teams to improve production stability, billet quality and efficiency.



Solving the problem is only the beginning.

Earlier in my career, I focused mainly on fixing the immediate issue. With experience, I learned to look deeper:

Why did it happen? What does the data tell us? Is this really the root cause? How do we prevent it from happening again?

That mindset was tested when we faced a recurring black billet issue.

For several months, we adjusted process parameters, reviewed operating methods and worked with Maintenance to inspect the homogenisation oven, but the problem remained.

We continued investigating and eliminating possible causes until we eventually identified the root cause: an incorrect gas combustion ratio. Once corrected, the issue was resolved.

Sometimes, we need to widen our view.

The experience reinforced an important lesson:

Not every problem has an obvious answer. Sometimes, we need to keep questioning, follow the evidence and look beyond what seems obvious.

Communication matters. Teamwork matters.

It also showed me the value of teamwork. Production, Maintenance, QA/QC and operators each understand the process from a different perspective, and those insights can reveal things that data alone may not show.

That is why I always encourage younger engineers not to understand a process only through reports or a computer screen.



Go and see it.

Watch how the operation actually runs. Talk to the operators. Observe where time is lost, where the process becomes unstable and where small improvements can make a difference.

Sometimes, a few hours of observation can teach you something that never appears on a spreadsheet.

Don't just study the process from a computer screen. Go to the production floor, observe it, talk to the people doing the work — and **always ask why**.

Growth Does Not Always Follow the Path We Planned

My career did not follow the path I originally planned. I eventually stepped away from my PhD studies and continued developing myself as an engineer, later earning my Professional Technologist designation.

But if there is one lesson I would share, it is not about qualifications.

It is about how we work.

Take ownership. Stay curious. Learn from the people around you. And never stop asking why.

Because improvement often begins with one simple question:



迈向汽车领域，从学习与积累开始

从铝挤压型材，到汽车零部件

GATE 2026 为 PMB Aluminium 提供了一个重要的平台，让我们进一步走近马来西亚汽车产业生态，也更深入了解这个行业的发展方向与市场需求。



本地化，正成为产业发展的重要议题

随着本地汽车产业持续发展，打造更完善、更具韧性的本地供应链，正受到越来越多关注。对我们而言，这也意味着新的参与机会。随着整车厂及产业链企业积极寻找具备长期合作能力的本地伙伴，制造企业有机会在汽车零部件本地化过程中扮演更重要的角色。

以产能为基础，向综合能力升级

汽车客户关注的，不只是“能不能生产”，更在于“能不能持续稳定地做好”。除了制造能力，他们同样重视品质稳定、工程支持、快速响应、流程管理，以及本地化配套能力。真正的竞争力，来自每一个环节的稳定执行。

以稳定表现，赢得长期信任

与主机厂及一级供应商的合作，从来不是一蹴而就。长期关系建立在技术理解、稳定表现与持续改善之上。随着客户需求不断变化，我们也需要持续学习、不断深化对行业与技术要求的理解。

每一次项目，都是能力的积累

我们从小规模起步，在真实项目中学习，在行业交流中理解需求，一步一步把经验转化为能力，把能力转化为走得更远的基础。

然后，把每一次经验，沉淀成前进的力量



Author: Lee

ENTERING AUTOMOTIVE: A NEW JOURNEY BEGINS

From Aluminium Extrusion to Automotive Components

GATE 2026 gave PMB Aluminium an important opportunity to step closer to Malaysia's automotive ecosystem.



Localisation Is Moving Up the Agenda

Across the industry, there is growing interest in strengthening local supply-chain capabilities.

For manufacturers like us, this creates opportunities to support localisation as OEMs and industry players look for reliable local partners who can contribute to long-term supply-chain development.

Capacity Alone Is Not Enough

Automotive customers look beyond whether a supplier can manufacture a part. They also expect consistent quality, engineering support, responsiveness, process discipline and localisation capability.

Trust Is Built Over Time

Engagement with OEMs and Tier 1 suppliers is a long-term journey. Relationships are built through technical understanding, consistent performance and continuous improvement. As customer requirements evolve, we need to keep learning with them.

Our Approach: Start Ready, Stay Ready

We are starting from a small scale, using real projects and industry engagement to build experience, understand customer requirements and progressively strengthen our automotive capabilities.

Start small. Learn fast. Build capability together.



Author: Lee

齐力澳美承办“合规出海与全链路碳管理”交流会，共探铝材出海破局之道



9月4日，由广东省汽车行业协会绿色低碳发展专业委员会主办、我司承办的“迎战欧盟绿色新规：合规出海、全链路碳管理与铝材出海破局线下交流会”圆满举办。本次活动汇聚了汽车产业链相关企业的管理者与碳管理负责人，旨在帮助产业链企业精准把握欧盟绿色新规核心要求，破解铝材出海碳合规痛点。

会上，多位行业专家分别就欧盟绿色新规解读、AI技术赋能绿色出海、碳价与大宗商品价格风险管理等议题进行了深度分享。作为承办单位与行业标杆，我司结合一线运营场景，重点分享了在应对欧盟碳边境调节机制（CBAM）方面的破局经验。以全链路碳管理体系的建设思路、供应链碳追溯机制以及CBAM申报的实操流程，为同类型企业提供了极具参考价值的合规范本。



公司管理层致辞

分享嘉宾精彩瞬间



广东省汽车行业协会秘书长
郑钦发言

广东省汽车行业协会秘书长郑钦在总结发言中强调，碳管理已成为供应链接单的核心门槛，呼吁产业链企业尽快搭建内部碳排放核算体系，以规避高额合规成本，赢得市场竞争先机。此次交流会的成功举办，不仅为产业链上下游搭建了精准对接与互通有无的平台，也有效凝聚了行业绿色转型的共识，为后续相关工作的推进提供了有益的参考与借鉴。

撰写：黄嘉琪

PMI Hosts Exchange on EU Green Regulations and Carbon Management



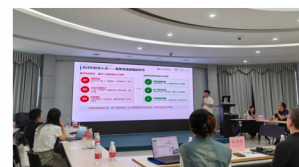
On September 4, PMI successfully hosted the "EU Green Regulations: Compliance, Full-Chain Carbon Management, and Export Strategies" seminar. Organized by the Green and Low-Carbon Development Committee of the Guangdong Automobile Industry Association (GAIA), the event brought together industry leaders and carbon management experts to address compliance challenges in the global aluminum export market.

During the seminar, experts delivered in-depth presentations on EU regulatory frameworks, AI-driven green export strategies, and carbon price risk management. As the host and an industry benchmark, PMI shared its practical experience in navigating the EU Carbon Border Adjustment Mechanism (CBAM). The company detailed its full-chain carbon management system, supply chain traceability mechanisms, and CBAM reporting procedures, offering a highly actionable compliance model for the sector.



Address by Company Management

Guest Speakers in Action



Zheng Qin, Secretary-General of GAIA, Delivers Speech

Zheng Qin, Secretary-General of GAIA, emphasized in his closing remarks that carbon management has become a critical prerequisite for supply chain procurement. He urged enterprises to establish internal carbon accounting systems promptly to mitigate compliance costs and secure market competitiveness. The seminar provided a valuable platform for industry collaboration, fostering consensus on green transformation and offering practical insights for future initiatives.

Author: Kelly Huang

STAY SAFE, STAY PRODUCTIVE DURING HAZE

YOUR HEALTH • YOUR SAFETY • OUR PRIORITY

Haze can affect our health and work performance.
Let's work together and follow the best practices
to protect ourselves and our teammates.

CURRENT HAZE STATUS

SAMALAJU, SARAWAK

1 SEPTEMBER 2026, 8:00 AM

AQI

221



VERY UNHEALTHY

Health Message:

Health alert: everyone may experience
more serious health effects.

Avoid outdoor activities. Follow official
advice.

Source: AQICN.org

BEST PRACTICES DURING HAZE AT THE FACTORY

1 STAY HYDRATED – DRINK WATER



- Drink plenty of water even if you don't feel thirsty.
- Aim for 8–10 glasses per day.
- Avoid sugary and caffeinated drinks.

**WATER KEEPS YOU
ENERGIZED AND HEALTHY.**

2 WEAR APPROPRIATE RESPIRATORY PROTECTION



- Wear N95 or equivalent mask when AQI is Unhealthy or higher.
- Ensure proper fit and seal.

**PROTECT YOUR LUNGS,
PROTECT YOUR LIFE.**

3 REDUCE OUTDOOR EXPOSURE



- Minimize outdoor activities.
- Keep doors and windows closed.
- Use enclosed walkways when available.

**LESS EXPOSURE,
BETTER PROTECTION.**

4 CLEAN YOURSELF REGULARLY



- Shower after work to remove haze particles.
- Wash face and hands frequently.

**CLEAN BODY,
HEALTHY YOU.**

5 MONITOR YOUR HEALTH



- Watch for symptoms: cough, sore throat, itchy eyes, shortness of breath.
- Seek medical attention if symptoms worsen.

**DON'T IGNORE THE SIGNS.
GET CHECKED EARLY.**

6 KEEP WORK AREAS CLEAN



- Clean work areas regularly to reduce dust accumulation.
- Use proper ventilation systems.

**A CLEAN WORKPLACE
IS A SAFE WORKPLACE.**

7 LIMIT PHYSICAL EXERTION



- Avoid heavy exertion outdoors.
- Take regular breaks in well-ventilated or indoor areas.

**PACE YOURSELF,
STAY STRONG.**

8 STAY INFORMED



- Check AQI updates regularly.
- Follow company announcements and advisories.

**STAY INFORMED,
STAY PREPARED.**

WHO ARE MORE AT RISK?



People with
lung or heart
conditions



Elderly
individuals



Pregnant
women



Children

AQI GUIDE

AQI RANGE	LEVEL	WHAT IT MEANS	ACTIONS
0 – 50	GOOD	Air quality is satisfactory.	Enjoy outdoor activities.
51 – 100	MODERATE	Air quality is acceptable.	Sensitive people should limit prolonged exertion.
101 – 150	UNHEALTHY FOR SENSITIVE GROUPS	Sensitive groups may experience health effects.	Limit outdoor activities. Limit outdoor activities if you feel unwell.
151 – 200	UNHEALTHY	Everyone may begin to experience health effects.	Reduce outdoor exertion. Wear mask.
201+	VERY UNHEALTHY	Health alert: everyone may experience more serious effects.	Avoid outdoor activities. Follow official advice.

TIPS TO IMPROVE INDOOR AIR QUALITY



- Ensure air-conditioning filters are clean.



- Use indoor plants that help improve air quality.



- Avoid smoking and burning inside the premises.



- Maintain good air circulation indoors.



**TOGETHER, WE CAN WORK SAFELY AND STAY HEALTHY.
SAFETY FIRST, HEALTH ALWAYS, TOGETHER WE CARE.**



**SAFETY FIRST
HEALTH ALWAYS
TOGETHER WE CARE**

LET'S BE HAZE-READY. PROTECT YOURSELF, PROTECT OTHERS.

安全第一， 生产有序 雾霾天气保持高效

你的健康·你的安全·我们的首要目标

AQI

221



非常不健康

健康提示：

健示：每个人可能面临更严重的健康影响。避免户外活动。遵循官方建议。

来源：AQIIN.org

1

保持水分——多喝水

- 即使不觉得渴，也要大量饮水
- 目标：每天8-10杯
- 避免含糖和含咖啡因的饮料



水让你充满活力和健康

2

佩戴适当的呼吸防护装备

- 当空气质量指数(AQI)为不健康或更高时，佩戴N95或防雾霾口罩
- 确保佩戴贴合、密封良好



保护肺部，保护生命

3

减少户外暴露

- 尽量减少户外活动
- 保持门窗和通风口关闭
- 有遮蔽的通道时尽量使用
- 避免在户外休息/吸烟



少暴露，更好保护

4

定期清洁自己

- 淋浴以冲掉头发上的颗粒物
- 勤洗脸和洗手



身体清洁，你才健康

5

监测自身健康状况

- 留意症状：咳嗽、喉咙痛、眼睛干涩/刺痛、呼吸急促、胸痛
- 若出现症状，请就医或报告



不要忽视迹象。及早检查

6

保持工作区域清洁

- 定期清洁工作区域，减少粉尘积聚
- 使用适当的通风/除尘系统



清洁的工作场所是安全的工作场所

7

限制体力消耗

- 避免繁重劳动、户外锻炼/活动
- 定期在通风良好的区域或室内休息

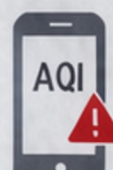


调整节奏，保持强健

8

随时了解信息

- 定期查看AQI更新
- 关注公司公告和警报



保持知情，做好准备

高风险人群：

• 儿童 • 老人 • 孕妇 • 呼吸系统疾病 • 心脏病

AQI 颜色等级指南

0-50 优	51-100 良	101-150 轻度	151-200 不健康	201-300 非常健康	300+ 危险
--------	----------	------------	-------------	--------------	---------

改善室内空气：

关闭门窗

使用空气净化器

避免吸烟 / 燃烧

保持通风清洁

不要忽视信号 —— 尽早检查

清洁的工作场所 = 安全的工作场所

照顾好自己，保持强壮

保持知情，保持准备

欢迎投稿 企业动态

*We welcome your
submissions.*

中国 CHINA: zoey.zhu@pressmetal.com.cn
马来西亚 MALAYSIA: leesp@pressmetal.com.my

审稿人 REVIEWERS: TAXI DRIVER、FOOD HUNTER



感谢阅读，此动态为内部资讯，仅限齐力澳美及全体子公司内部传阅。
内容撰写如有不足，期待您的建议。

——项目管理部

Thank you for reading. This update is for internal reference only and is intended for circulation within PMI, PMIBA and all subsidiaries. We welcome your suggestions regarding any shortcomings in the content.

——Project Management Department