



先进的发泡挤出技术

Advanced foam extrusion technology

南京科威挤出机械有限公司

Cowell Extrusion Machinery

ISO9001-2000 

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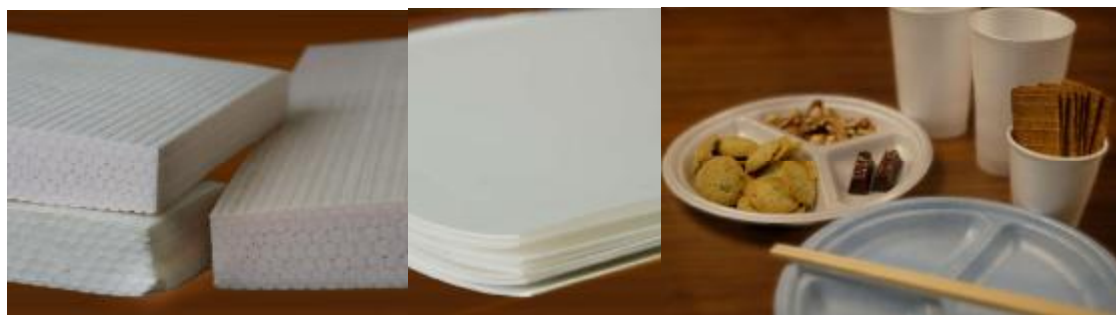
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发泡挤出生产线

Foaming extrusion line

科威公司以聚合物挤出加工工艺为基础，聚合物流变以及超临界物理微发泡等技术为先导，开发设计制造各类新型聚合物发泡加工装备，应用于各个领域。

Based on polymer extrusion process technology, polymer rheology and supercritical physical micro foaming technology as the forerunner, Cowell Extrusion develops, designs and manufactures all kinds of new polymer foaming processing equipment and applies them in various fields



从成熟稳定的二氧化碳发泡XPS挤塑板生产线，到PLA聚乳酸全降解发泡片材生产线，从EPP/EPE微珠发泡挤出生产线到PET发泡板材生产线，科威公司提供全套解决方案。

From the mature and stable production line of CO₂ foamed XPS sheet, to the fully bio-degradable production line of PLA foamed sheet, from the EPP/EPE micro bead foamed extrusion line to the production line of PET foamed sheet, Cowell Extrusion provides a full set of solutions

超临界CO2注入系统

Supercritical CO₂ injection system

超临界CO₂的精确计量和注入是物理发泡关键注入工艺之一。它不仅涉及到精确的温度控制，压力控制，质量流量控制还涉及到生产工艺各项参数之间的平衡。由于超临界CO₂发泡的操作窗口非常的窄，因此精确的计量和注入对成功的使用超临界CO₂发泡起着至关重要的作用。科威公司根据超临界CO₂的物理特性设计了能够确保超临界CO₂可以被精确的计量和稳定的注入系统。

Accurate measurement and injection of supercritical CO₂ is one of the key injection processes for physical foaming. It involves not only accurate temperature control, pressure control, mass flow control but also the balance of the parameters of the production process. Because the operation range of supercritical CO₂ foaming is very narrow, accurate measurement and injection play a crucial role in the successful use of supercritical CO₂ foaming. Based on the physical characteristics of supercritical CO₂, Cowell Extrusion has designed an injection system that ensures the supercritical CO₂ can be accurately measured and stably injected.



南京科威可以提供国内最成熟的超临界二氧化碳加注系统解决方案，涵盖高中低档二氧化碳注入工艺包，可以根据实际需求提供定制方案。

Cowell Extrusion can provide the most mature supercritical CO₂ injection system solutions in China, covering high and low CO₂ injection process kits, and can provide customized solutions according to the actual needs.

XPS发泡挤出生产线

XPS Foam extrusion line

全系列的聚苯乙烯挤塑板（XPS）提供商。从现有旧有设备改造的经济简易型的二氧化碳发泡机组，到主流成熟配置的全自动二氧化碳发泡生产线；再到具备国际领先水平的大型XPS挤塑板生产线；南京科威都能提供完美的配套方案。

Full range of polystyrene extruded sheet (XPS) providers. From the existing updated old & economic CO₂ foaming unit, to the fully automatic CO₂ foaming production line; and even the international leading level large XPS extrusion board production line; Cowell Extrusion can provide perfect solution.



南京科威还可依据客户实际情况提供现有设备升级改造方案：从原料自动供给系统的整合到新型发泡剂加注系统的升级、主机挤压系统的改造、后续二次发泡设备加入、全新温控系统加入，我们都能提供全方面的解决方案和技术支持，最大限度的保护客户已有的投资。

Cowell Extrusion can also provide upgrade service to your existing line based on your actual situation: We can give full solution and technical support from fully automatic feeding system, newly CO₂ injection system upgrading, extruder system modification, adding second foaming system to adding pretty new temperature controlling system. Saving customer's new investment.

发泡生产线技术参数

Technical Parameters of foam extrusion line

产量 Output 设备型号 Type kg/h	200	350	500	800	1000	1250	1500
CFE 65/135							
CFE 75/170							
CFE 85/200							
CFE 95/250							
CFE 110/300							

发泡实验线

Laboratory foaming extrusion line

科威公司在物理发泡实验设备上有着独特的技术解决方案：可以提供现有最小的15/25双阶物理发泡挤出试验机；发泡剂加注精确；二氧化碳及氮气加注量可控制至20g/小时；树脂喂料量从200g至5000g精确可控；系统压力最大可到100Mpa；

Cowell Extrusion has a unique technical solution on the physical foaming experimental equipment: can provide the smallest 15/25 two-stage physical foaming extrusion for lab; Accurate foaming agent injection; The injection rate of CO₂ and N₂ can be controlled to 20g/ h; The resin feeding rate is accurately controllable from 200g to 5000g; Maximum system pressure up to 100Mpa;



CFE15 /25 双阶发泡实验设备，最高系统压力可达100Mpa
CFE15/25 two-stage lab foaming equipment, the maximum system pressure can reach 100Mpa



CFE25 /50 双阶发泡实验设备，各种切粒方式可切换
CFE15/25 Two-stage foaming experiment equipment, various cutting methods can be switched

发泡实验线技术参数

Technical Parameters of laboratory foam extrusion line

设备型号 Type	CFE-15/25	CFE-25/50	CFE-36/65	CFE-52/120
发泡剂 Foam agent	二氧化碳(CO ₂)/氮气 (N ₂)			
加注压力 Inject pressure	工作压力(Working pressure)25Mpa, 最高压力(Max pressure)35Mpa			
最高压力 Max pressure	100Mpa	60Mpa	50Mpa	50Mpa
产量 Output	0.2-5kg	3-15kg	8-40kg	10-100kg
辅机 Auxiliary	依据客户产品要求定制(According to customer's requirement)			