

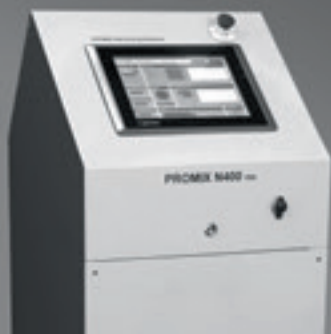


PROMIX
Solutions



KEY COMPONENTS FOR PLASTICS PROCESSING
塑料加工的關鍵部件

MIXING. 混合
FOAMING. 微發泡
COOLING. 冷卻



HOW YOU BENEFIT TWICE WITH PROMIX

Discover the potential
of Promix Mixing Nozzles:
Save masterbatch and
improve the quality of your parts
發現Promix 混合噴嘴的潛力：
節省色母料並提高零件質量



YOUR BENEFITS IN INJECTION MOLDING 在射出成型的優勢

Savings equivalent to 20–30 %
of masterbatch costs
節省 20–30% 的色母料成本

No color streaking or flow lines
沒有顏色條紋或流線

Shorter cycle times Increased
admixture of regrind material 更短的循
環時間，增加了再研磨材料的混合物

Better tolerances and therefore lower
reject rates
更好的公差，更低的廢品率

Higher parts strength Easy to clean
更高的零件強度，易於清潔

Quality problems in injection molding, like color streaking, are often solved by modifying the process parameters. This method often does not help when it concerns the self-colouring of products. Masterbatch concentration and screw back pressure must be increased – which means increased production costs. With the installation of a static mixer, Promix Solutions provides a simple, but efficient solution for companies wanting to manufacture cost-effective, high-quality plastic parts. Static mixers and mixing nozzles from Promix Solutions ensure excellent homogeneity in the melt; our decades of experience are a guarantee for this.

The benefits are obvious: higher parts quality, reduced pigment consumption, fewer rejects, lower costs, higher return.

射出成型中的品質問題，如色斑，通常通過修改製程參數來解決。當涉及產品的自著色時，這種方法通常沒有幫助。色母料濃度和螺桿背壓必須增加—這意味著生產成本增加。通過安裝靜態混合器，Promix Solutions 為希望製造具有成本效益的高品質塑料零件的公司提供了一種簡單但高效的解決方案。Promix Solutions 的靜態混合器和混合噴嘴確保在熔體中出色的均勻性；我們幾十年的經驗對此的保證。

好處是顯而易見的：更高的零件品質、減少顏料消耗、更少的廢品、更低的成本、更高的回報。

HOW STATIC MIXING WORKS 靜態混合的工作原理

Static mixing is mixing without moving parts. The only thing that moves is the fluid in the flow channel. In plastics processing, the melt is transported by the plasticizing screw or by gear pumps. The mixing elements remain in a fixed position and bring about a constant splitting and transferring of the melt stream across the entire flow cross-section. The result is a homogeneous melt—materially and thermally.

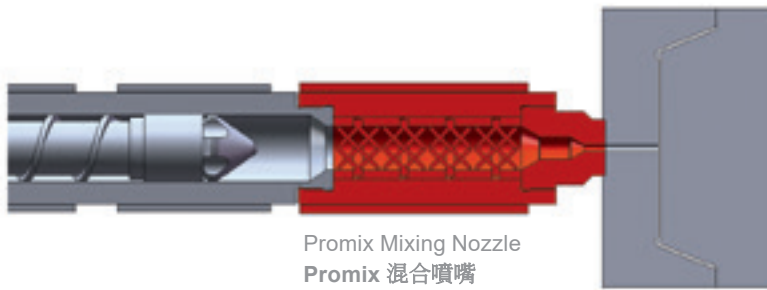
靜態混合是沒有移動部件的混合。唯一移動的是流道中的流體。在塑料加工中，熔體由塑化螺桿或齒輪泵輸送。混合元件保持在固定位置，使熔體流在整個流動橫截面上不斷分裂和轉移。結果是均勻的熔體——材料和熱。



Roll-on deodorant housing molded without Promix Static Mixer
不帶 Promix 靜態混合器的滾珠式除臭劑外殼成型



Roll-on deodorant housing molded with Promix Static Mixer
使用 Promix 靜態混合器的滾珠式除臭劑外殼成型



READY-TO-INSTALL SOLUTIONS 即裝即用的解決方案

The Promix Mixing Nozzle replaces the existing nozzle

of your injection molding machine and can be delivered, ready-to-install, within three weeks.

The mixing nozzle is installed in no time, so your production can resume immediately following the installation. Benefit from our broad-based application know-how and personal consultation.

Promix 混合噴嘴取代了現有射出機的噴嘴，並且可以在三週內交付並準備安裝。

混合噴嘴立即安裝，因此您的生產可以在安裝後立即恢復。受益於我們廣泛的應用知識和個人諮詢。



COST SAVINGS WITH STATIC MIXERS FROM PROMIX

使用 PROMIX 的靜態混合器節省成本

The color pigments are better absorbed and distributed in the melt with the installation of a static mixer from Promix Solutions. As a rule, this reduces the masterbatch consumption by 20 to 30%. This can bring cost savings of \$ 1,000 to \$ 10,000 annually. Static mixers from Promix can reduce costs in other ways.

Here are a few examples:

通過安裝 Promix Solutions 的靜態混合器，彩色顏料可以更好地被吸收和分佈在熔體中。通常，這會將色母粒消耗量減少 20% 至 30%。這可以每年節省 1,000 至 10,000 美元的成本。Promix 的靜態混合器可以通過其他方式降低成本。

這裡有一些例子：

- Reduced reject rate thanks to improved dimensional accuracy
尺寸精度提高，廢品率降低
- Greater proportion of regrind is possible
可以實現更大比例的次料使用
- Increased, consistent material strength of parts
零件的材料強度增加且一致
- Shorter cycle times 更短的循環時間

& Facts & Figures

Masterbatch savings and reduced cycle times 節省色母粒並縮短循環時間

\$ 90 000

Yearly savings thanks to Promix Mixing Nozzles due to 得益於 Promix 混合噴嘴，每年可節省成本，因為

30% Masterbatch savings from 2.2% to 1.5%
色母粒節省 2.2% 至 1.5%

9%

Cycle time reduction from 120 sec to 109 sec
循環時間從 120 秒減少到 109 秒

! Time for installation: less than 1 hour
安裝時間：不到 1 小時

Application 應用：
PP container, shot weight 7000 g
PP 容器，射出重量 7000 g



HOW TO INCREASE YOUR PRODUCTIVITY WITH PROMIX

如何使用 PROMIX 提高您的工作效率

Find out why many producers equip their production lines with Promix Melt Blenders

了解為什麼許多生產商為其生產線配備 Promix 熔體混合器



YOUR BENEFITS IN EXTRUSION 在押出的優勢

Constant high melt quality Higher throughput

恆定的高熔體品質，更高的產量
Avoidance of flow lines 避免流線型
Uniform temperature distribution in the entire melt stream

整個熔體流中溫度分佈均勻

Uniform sheet thickness

均勻的板材厚度

Excellent incorporation of additives

添加劑的出色結合

Homogeneous cell structures of foams

均質發泡結構

The manufacture of high-quality products also has top priority in extrusion processes. Promix Solutions is in a position to optimize your extrusion process using the melt blenders specially developed for it. In addition, many producers can also raise the output of their production lines. Poor surface quality, long cooling times, high thickness tolerances and other quality issues often limit the maximum production rate. Promix Melt Blenders eliminate such limitations effectively and sustainably, leading to significant cost savings. With Promix, you get a high-quality, ready-to-install melt blender designed to provide optimum performance for your specific application.

Get the maximum benefit thanks to our many years of design experience!

高品質產品的製造在押出製程中也是重中之重。Promix Solutions 能夠使用專門為其開發的熔體混合器來優化您的押出製程。此外，許多生產商還可以提高生產線的產量。表面品質差、冷卻時間長、厚度公差高和其他品質問題通常會限制最大生產率。

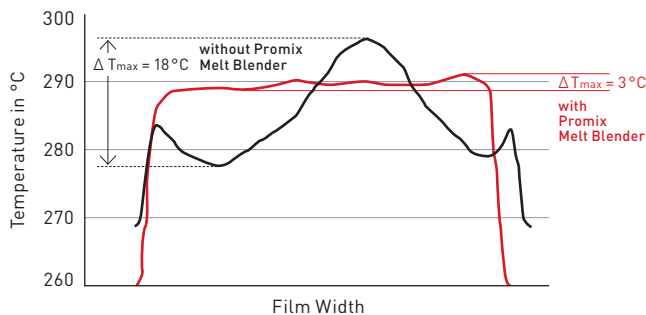
Promix 熔體混合器有效且可持續地消除了這些限制，從而顯著節省了成本。使用 Promix，您可以獲得高品質、可立即安裝的熔體混合器，旨在為您的特定應用提供最佳性能。

憑藉我們多年的設計經驗，獲得最大的收益！

THE KEY TO IMPROVED PRODUCT QUALITY 提高產品品質的關鍵

In extrusion processes, temperature differences in the melt will be generated by the plasticizing process in the screw, melt pump, screen changer and even by empty pipe sections. The diagram below shows how the Promix Melt Blender evens out the temperature across the whole flow channel. A uniform distribution of temperature and velocity is the key to high-quality extrusion products.

Improve your product tolerances and the surface quality of your product and raise the throughput of your production line using a Promix Melt Blender. 在押出過程中，螺桿、熔體泵、換網器甚至是空管段的塑化過程都會產生熔體的溫差。下圖顯示了 Promix Melt Blender 如何使整個流道的溫度均勻。溫度和速度的均勻分佈是高品質押出產品的關鍵。使用 Promix 熔體混合器提高您的產品公差和產品的表面品質，並提高您的生產線的產量。



Thermoscan of a PE-coating film without Promix Melt Blender
沒有 Promix 熔體混合器的 PE 塗層薄膜的熱掃描



Thermoscan of a PE-coating film with Promix Melt Blender
使用 Promix 熔體混合器對 PE 塗層薄膜進行熱掃描



HIGH-QUALITY READY-TO-USE SYSTEMS 高品質即用型系統

Promix Melt Blenders are installed downstream of the melt pump/screen changer and directly upstream of the die. This ensures outstanding homogeneity of the melt entering the die. The integration of a Promix Melt Blender is a very efficient and economical way to sustainably improve your Extrusion process.

Promix Solutions supplies you with ready-to-install systems including housing, adapters and heating for fast and problem-free installation into your existing extrusion process.

Promix 熔體混合器安裝在熔體泵/換網器的下游和模具的上游。這確保了進入模具的熔體具有出色的均勻性。Promix 熔體混合器的整合是一種非常有效且經濟的方式，可以持續改進您的押出製程。

Promix Solutions 為您提供即裝即用的系統，包括外殼、轉接器和加熱裝置，可快速、無故障地安裝到您現有的押出製程中。



CONTINUOUS R&D EFFORTS – A MUST FOR THE TECHNOLOGY LEADER 持續的研發努力——技術領導者的必備品

The geometry and construction of the Promix Melt Blender are the result of many years of experience and continuous development. Our latest Melt Blender generation, SMB plus, combines outstanding mixing properties with low pressure loss and a very robust construction. The flow-optimized mixer geometry has been developed with the help of the latest CFD simulation tools and demonstrates unsurpassed self-cleaning properties. A narrow residence-time spectrum and good inline cleaning are of great importance in extrusion. This is the only way to ensure that the polymer melt does not decompose and that no large scrap quantities due to changes in product or color occur. Despite its complex geometry, the mixer has no dead zones and builds up fewer deposits compared to empty pipe sections. This has been demonstrated in our own technical center. Ask us!

Promix 熔體混合器的幾何形狀和結構是多年經驗和不斷發展的結果。我們最新一代的熔體混合器 SMB plus 結合了出色的混合性能、低壓力損失和非常堅固的結構。在最新的 CFD 模擬工具的幫助下開發了流量優化的混合器幾何形狀，並展示了無與倫比的自清潔特性。

短暫的停留時間範圍和良好的在線清洗在押出中非常重要。這是確保聚合物熔體不會分解並且不會因產品或顏色變化而產生大量廢料的唯一方法。儘管其幾何形狀複雜，但與空管段相比，混合器沒有死角並且形成的沉積物更少。我們自己的技術中心已經證明了這一點。問我們！

& Facts & Figures

Increased throughput thanks to Promix Melt Blender **Promix 熔體混合器提高了產量**

\$ 300 000

annual saving achieved from 每年節省的费用來自

30 %

throughput increase from 120 kg / h to 160 kg / h
產量從 120 kg / h 增加到 160 kg / h

! Time for installation: less than 4 hours
安裝時間：少於4小時

Application 應用:

Table edge strip made from ABS
由 ABS 製成的桌邊條



HOW TO FOAM SUCCESSFULLY WITH PROMIX

Find out how you can save money and weight with Promix Foam Extrusion Systems and also be ecofriendly

了解如何使用 Promix 微發泡押出系統節省資金和重量，同時實現環保



YOUR BENEFITS FROM FOAMING

微發泡的好處

Considerable cost savings (density reduction 10-70%) 可觀的成本節省 (密度降低 10-70%)

Outstanding foam quality and process stability due to unique technology 獨特的技術，帶來出色的微發泡品質和製程穩定性

Easy installation in existing and new extrusion lines 易於安裝在現有和新的押出生產線中

No licence fees 沒有許可證費用

Easy switch from foamed to non-foamed products 易於從微發泡產品轉換為非微發泡產品

Eco-friendly, light weight products 環保，重量輕的產品

Produce microcellular foam products of the highest quality.

Both existing and new extrusion plants can be very easily converted into foam extrusion plants with the Promix Foam Extrusion System. Promix Solutions analyzes your extrusion process and develops an optimum solution to match the application. The patented technology is based on the use of cost-effective and ecofriendly physical blowing agents such as CO₂ and nitro-gen. The solutions are suitable both as a substitute for chemical foaming and also for a changeover from non-foamed to foamed extruded products.

The investment already pays for itself within a few months and the environmental impact is lowered by the reduction in plastics consumption.

生產最高品質的微發泡產品。

使用 Promix 微發泡押出系統，現有和新的押出設備都可以很容易地轉換為微發泡押出設備。Promix Solutions 分析您的押出製程並開發出與應用相匹配的最佳解決方案。該專利技術基於使用具有成本效益和環保的物理發泡劑，例如二氧化碳和氮氣。該解決方案既適合作為化學發泡的替代品，也適合從非發泡到發泡的押出產品轉換。投資在幾個月內就收回了成本，而且塑料消耗的減少也降低了對環境的影響。

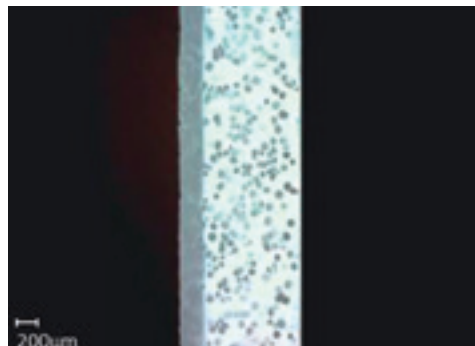
ENTRY INTO FOAMING HAS NEVER BEEN EASIER 進入微發泡如此簡單

Promix Foam Extrusion Systems include all components and services necessary to manufacture a very high-quality microcellular foam product. Promix

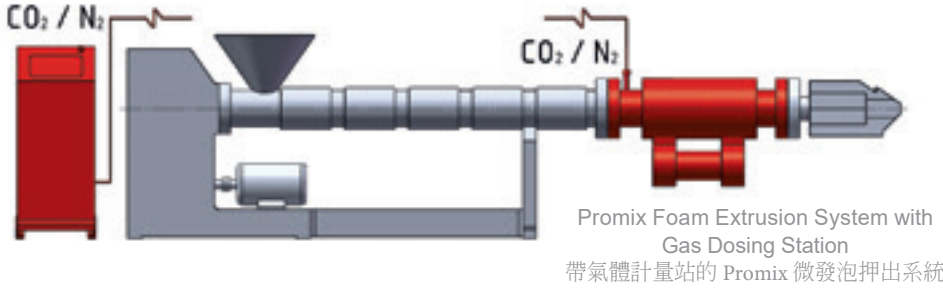
微發泡押出系統包括製造高品質微發泡產品所需的所有組件和服務。

The Keys to Success

- Promix Gas Dosing Systems for highest dosing precision and very easy operation have been specially developed for physical foaming. Promix 氣體計量系統具有最高的計量精度和非常易於操作，專為物理發泡而開發
- Highly efficient, patented static and dynamic mixing systems with very short installation lengths 高效、專利的靜態和動態混合系統，安裝長度非常短
- Unique, patented P1 Cooling Mixer technology for outstanding foam results 獨特的專利 P1 冷卻混合器技術可提供出色的微發泡效果
- Foam compatible screw design 兼容螺桿設計
- Comprehensive guidance and project support 全面指導和項目支持
- Pilot tests and sample production in our extrusion laboratory 在我們的押出實驗室進行試驗性測試和樣品生產



Microcellular foam sheet
微發泡板材



PROMIX FOAM EXTRUSION Promix 微發泡押出

Promix Foam Extrusion Systems are integrated into the extrusion plant and consist of components for dosing and injection of blowing agents as well as homogenization and cooling of the melt. The blowing agent is added in a controlled manner by the high-precision Promix Gas Dosing Station developed specially for physical foaming.

Highly efficient, patented static and dynamic Mixing Systems ensure an optimum admixture of blowing agent in a short process length. The unique P1 Cooling Mixer technology is a further key component for producing very fine-celled foam products with exceptionally uniform cell distribution.

Promix 微發泡押出系統整合到押出設備中，由用於計量和射出發泡劑以及熔體均質化和冷卻的組件組成。發泡劑由專為物理發泡開發的高精度 Promix Gas Dosing Station 以可控方式添加。

獲得專利的高效靜態和動態混合系統可確保在短時間內實現最佳的發泡劑混合過程長度。獨特的 P1 冷卻混合器技術是生產具有極其均勻的泡孔分佈的極細微發泡產品的另一個關鍵組成部分。

MORE THAN 100 SYSTEMS SOLD WORLDWIDE

超過 100 套系統銷往全球

Promix Foam Extrusion Systems are in use for a very wide variety of applications and for almost all polymers – and for plants with output rates of 5 kg/h to more than 2000 kg/h.

By producing very homogeneous microcellular structures, high-quality foam products with very low densities and outstanding mechanical properties can be manufactured:

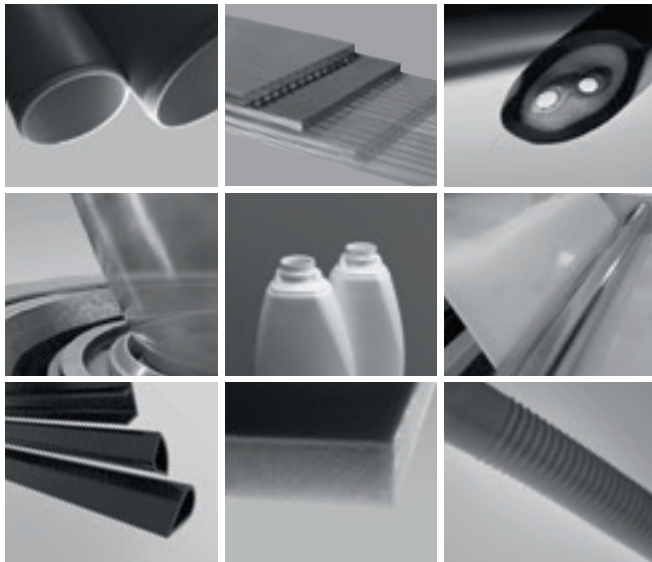
Promix 微發泡押出系統的應用非常廣泛，幾乎適用於所有的聚合物。以及產量從5公斤/小時到超過2000公斤/小時的工廠。

通過生產非常均勻的微孔結構，可以製造出具有極低密度和出色機械性能的優質微發泡產品：

Foam-core pipes
Blown films Profiles
泡沫芯管 吹膜 型材

Twin-walled boards
Bottles Sandwich boards
雙壁板 瓶子 夾心板

Cables Flat sheets
Corrugated pipes
電纜 平板 波紋管



& Facts Figures

High material savings due to
physical foaming
物理發泡可節省大量材料

\$ 80 000

monthly savings thanks to the Promix Foam
Extrusion System
Promix 微發泡押出系統每月節省費用

25%

Density reduction 密度降低
Extruder capacity 600–1000 kg/h mono
and multilayer
押出機產能 600-1000 kg/h 單層和多層

! Time for installation: less than 2 days
安裝時間：少於2天

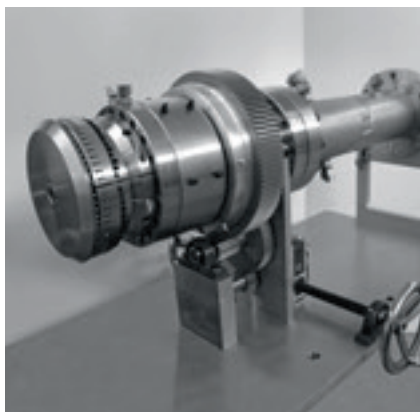
Application 應用：
Thermoformed trays in PS and PET
PS 和 PET 熱成型托盤



HOW YOUR LIGHT FOAM BECOMES EVEN LIGHTER WITH PROMIX

使用 PROMIX 如何讓您的輕質發泡變得更輕

Find out with Promix key components how you can make your XPS, EPS, XPE, XPP and XPET light foams even lighter and improve their mechanical properties 了解 Promix 關鍵組件如何使您的 XPS、EPS、XPE、XPP 和 XPET 輕質發泡更輕，並提高其機械性能



YOUR BENEFITS WITH LIGHT FOAMS

輕質發泡優點

Raw material savings thanks to lower foam densities
較低的發泡密度可節省原材料

Significantly improved, very homogeneous cell structure
顯著改善，非常均勻的發泡結構

Improved mechanical properties
改善機械性能

Savings in blowing agent and additives
節省發泡劑和添加劑

Higher production throughput Much smaller thickness tolerances
更高的生產量 更小的厚度公差

Install Promix key components to optimize the production of light foams such as XPS insulation boards, XPE foam sheets, foamed thermo-forming sheets made from EPS or XPP. The P1 Cooling Mixer, the Q1 Annular Die and other key components make the difference here. These can further reduce the density, improve the cell structure and increase the throughput of the plant – so leading to considerable cost savings in production.

Whether you have tandem or twin screw extruders, making thermal insulation boards, packaging film, food trays or pipe insulation, we will analyze your existing plant concept and make suggestions for optimizing your process and increasing your profits.

Our experts will provide support up to the successful start of your production.

安裝 Promix 關鍵組件以優化輕質發泡的生產，例如 XPS 絕緣板、XPE 發泡板、由 EPS 或 XPP 製成的發泡熱成型板。

P1 冷卻混合器、Q1 環形模具和其他關鍵部件在這裡有所作為。這些可以進一步降低密度、改善電池結構並提高工廠的產量——從而顯著節省生產成本。

無論您有串聯或雙螺桿押出機，製造保溫板、包裝薄膜、食品托盤還是管道保溫，我們都會分析您現有的工廠概念，並為優化您的製程和增加您的利潤提出建議。我們的專家將為您的生產成功開始提供支持。

NEW PROCESS OPTIONS THANKS TO P1 COOLING MIXER

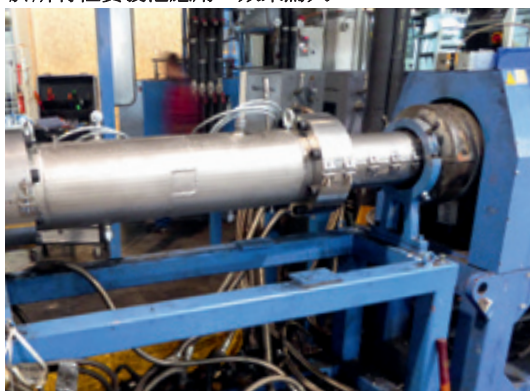
得益於 P1 冷卻混合器的新製程選項

The Promix P1 Cooling Mixer is the unique combination of a very efficient static mixer and a powerful cooler.

The innovative patented technology opens up completely new process technology options for light foam production.

By simultaneously providing mixing and cooling functions in the P1, the precise control of ideal melt temperature for your process is assured. Flow velocity and temperature become uniform across the entire melt stream, creating ideal conditions for producing a high-quality light foam product with very homogeneous, fine cell structure. The P1 cooling mixer technology can be used for all light foam applications with astonishing results.

Promix P1 冷卻混合器是非常高效的靜態混合器和強大的冷卻器的獨特組合。創新的專利技術為輕質發泡生產開闢了全新的製程技術選擇。通過在 P1 中同時提供混合和冷卻功能，可以確保為您的製程精確控制理想的熔體溫度。整個熔體流中的流速和溫度變得均勻，為生產具有非常均勻的發泡結構的高品質輕質發泡產品創造了理想條件。P1 冷卻混合器技術可用於所有輕質發泡應用，效果驚人。



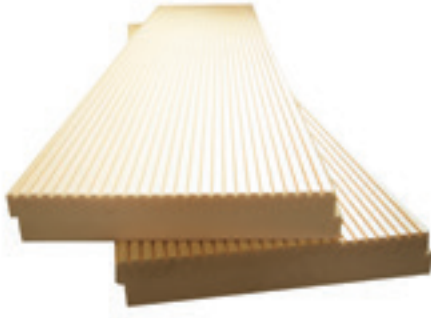
P1 Cooling Mixer installed in XPS insulation board plant
安裝在 XPS 保溫板廠的 P1 冷卻混合器

A LEAP IN QUALITY FOR YOUR LIGHT FOAM APPLICATIONS

輕質發泡應用的品質提升

Promix key components are used in many light foam applications and have significantly improved quality and reduced costs for such applications as:

Promix 關鍵組件用於許多輕質發泡應用，並顯著提高了品質並降低了以下應用的成本：

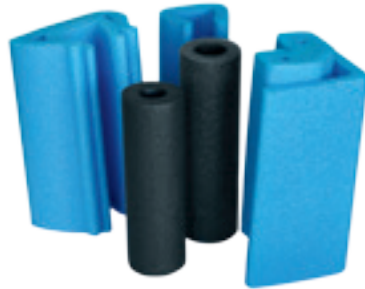


XPS insulation boards XPS保溫板

- More uniform and finer foam structure
更均勻、更細的發泡結構
- Increased line throughput; especially with thick boards 增加生產線吞吐量；尤其是厚板
- Lower foam density 低發泡密度
- Saving in blowing agent 節省發泡劑
- Reduced flame retardant concentration 降低阻燃劑濃度

XPE foam sheets and profiles XPE 發泡板和異型材

- Lower foam density 較低的發泡密度
- More uniform cell structure 更均勻的發泡結構
- Smaller thickness tolerances 更小的厚度公差



PS, PP & PET foam food packaging PS, PP & PET發泡食品包裝

- Lower foam density 較低的發泡密度
- Greater stiffness 更大的剛度
- Better thermoforming behaviour 更好的熱成型行為
- Lower thickness tolerance 較低的厚度公差



& Facts Figures

Significant saving in weight thanks to better cell structure
顯著節省
得益於更好的發泡結構，重量更輕

\$ 70 000

monthly savings by installing Promix Annular Dies and P1 Cooling Mixer technology
通過安裝 Promix 環形模具和 P1 冷卻混合器技術每月節省費用

23%

weight reduction of 6.5 g to < 5.0 g per tray with 20 % greater strength
減重
每個托盤 6.5 克至 <5.0 克，強度提高 20%

! Time for installation: approx. 1 week
安裝時間：約 1 週

Application 應用:
Thermoformed food tray made from PS
由 PS 製成的熱成型食品托盤



HOW YOU FOAM WITH PROMIX DOSING SYSTEMS

如何使用 PROMIX 微發泡計量系統

Learn how you perform high-precision N₂ and CO₂ dosing with Promix Gas Dosing Systems

了解如何使用 Promix 氣體計量系統執行高精度 N₂ 和 CO₂ 計量



YOUR BENEFITS FROM DOSING 計量的優點

Dosing stations developed specially for physical foaming
專為物理發泡而開發的計量站

High precision dosing of CO₂ and N₂
CO₂ 和 N₂ 的高精度計量

Very easy and reliable operation
非常簡單可靠的操作

Dosing quantities of 1 g/h to > 3000 g/h
計量從 1 g/h 到 > 3000 g/h

For dosing pressures up to 700 bar
適用於高達 700 bar 的計量壓力

Promix N₂ dosing System as part of a foam extrusion line
Promix N₂ 計量系統作為一個發泡押出生產線

Dosing nitrogen or carbon dioxide with high precision is a basic prerequisite for the manufacture of premium quality foam products. The Gas Dosing Stations specially developed by Promix for physical foaming set standards in terms of dosing technology. Even the smallest quantities of blowing fluid down to 1 g/h can be dosed very accurately. Operation is simple, safe, easy and reliable – which will be greatly appreciated by the operational staff. Trend charts for pressure and mass flow versus time and definable limits allow comprehensive process monitoring at any time.

The dosing systems are available for through-puts up to 3000 g/h and dosing pressures up to 700 bar.

Would you like to see the advantages? We will be pleased to offer you a suitable test system.

高精度計量氮氣或二氧化碳是製造優質發泡產品的基本前提。Promix 專門為物理發泡開發的氣體計量站在計量技術方面設定了標準。即使是最小量的發泡液（低至1克/小時）也可以非常精確地進行計量。操作簡單、安全、簡便、可靠——操作人員將不勝感激。壓力和品量流量隨時間變化的趨勢圖和可定義的限值允許隨時進行全面的過程監控。

計量系統可用於高達 3000 g/h 的產量和高達 700 bar 的計量壓力。

你想看看優勢嗎？我們很樂意為您提供合適的測試系統。

FULL INDUSTRY 4.0 CAPABILITY

全工業 4.0 能力

If you would like to incorporate the Promix Gas Dosing Station into your extruder control system, no problem.

We integrate the correct fieldbus system so that all functions of the dosing station can also be operated from a higher-level process control system.

And if you need support at any time, our technicians can access systems worldwide using remote maintenance.

如果您想將 Promix 氣體計量站整合到您的押出機控制系統中，沒問題。

我們整合了正確的現場總線系統，因此計量站的所有功能也可以通過更高級別的過程控制系統進行操作。如果您需要隨時支持，我們的技術人員可以通過遠程維護訪問全球系統。



HOW YOU COOL MELTS WITH PROMIX 如何用 PROMIX 冷卻

Get to know more about efficient melt cooling without fouling problems.

了解更多關於沒有結垢問題的高效熔體冷卻。



YOUR BENEFITS FROM COOLING 冷卻帶來的好處

- Very high cooling capacity
非常高的冷卻能力
- Exact temperature control
精確的溫度控制
- Excellent cross-mixing prevents blocking and fouling problems
出色的交叉混合防止堵塞和結垢問題
- Narrow residence-time spectrum
短暫的停留時間譜
- Short installation length
安裝長度短
- Low pressure drop
低壓降

Would you like to cool your polymer melts? Promix provides you with very efficient melt coolers and heat exchangers for medium to high viscosity melts and fluids. In cooling processes, polymer melts tend to deposit on cooled wall sections, (fouling), which leads to a lower cooling performance and decomposition of the polymer.

In Promix Melt Coolers, the melt flows through the cooler in a single stream and is mixed continuously over the entire flow cross-section. Very efficient cooling without deposits or decomposition problems is the result.

Promix Melt Coolers come in different versions, depending on the cooling task to be performed.

They are also suitable for very residence time-critical polymers such as polyesters and polycarbonates.

您想冷卻您的聚合物熔體嗎？Promix 為您提供用於中高粘度熔體和流體的高效熔體冷卻器和熱交換器。在冷卻過程中，聚合物熔體傾向於沉積在冷卻壁部分上（結垢），這會導致冷卻性能降低和聚合物分解。

在 Promix 熔體冷卻器中，熔體以單股流的形式流過冷卻器，並在整個流動橫截面上連續混合。結果是非常有效的冷卻，沒有沉積物或分解問題。

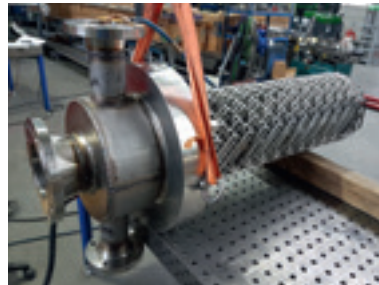
Promix 熔體冷卻器有不同的版本，具體取決於要執行的冷卻任務。它們也適用於對停留時間要求非常嚴格的聚合物，例如聚酯和聚碳酸酯。

MORE THROUGHPUT THANKS TO MELT COOLING

得益於熔體冷卻，產量更高

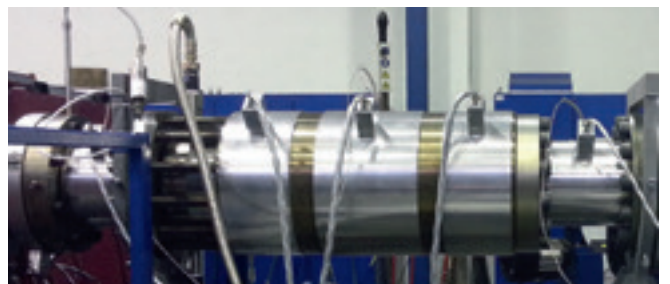
Quality features such as thickness tolerance or surface finish limit the maximum throughput of the line in many extrusion processes. Install Promix Melt Coolers to increase the capacity of your production line, because in many cases the quality problems are due to a melt temperature that is too high. An exact temperature control is key for high quality products.

品質特徵，如厚度公差或表面光潔度，在許多押出過程中限制了生產線的最大產量。安裝 Promix 熔體冷卻器以增加生產線的產能，因為在許多情況下，品質問題是由於熔體溫度過高造成的。精確的溫度控制是高品质產品的關鍵。



Increased throughput in your extrusion line thanks to Promix Melt Coolers

借助 Promix 熔體冷卻器提高押出生產線的產量





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