



SEADROPS

PRODUCT MANUAL

海滴天涂产品手册

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海滴天涂(苏州)智能科技有限公司

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公司简介

COMPANY PROFILE

海滴天涂成立于 2011 年，是一家集研发、生产、销售与技术服务为一体的综合性企业。

公司主营业务涵盖 OEM 代工服务，专注于生产并销售烘焙脱模油、面团分割油、糖果被膜剂，SEADROPS 脱模油喷枪，以及自动定量雾化喷油机。

凭借十多年的烘焙与糖果脱模应用经验，海滴天涂不仅拥有完善的配套设备，还擅长解决蛋糕、面包、冷冻面团、糖果等食品在脱模喷涂过程中遇到的各种难题。我们为客户量身定制解决方案，致力于提供安全、高效、高品质且用途广泛的脱模油，确保您的产品完美呈现。

Haidi Tiantu was established in 2011 as an enterprise which integrates research and development (R&D), production, sales, and technical services.

The company's main business includes OEM manufacturing and production and sales of baking release oil, dough dividing oil, candy coating agents, SEADROPS release oil spray guns, and automatic quantitative atomizing spray machines.

With over ten years of experience in baking and candy demoulding, Haidi Tiantu not only has the complete supporting equipment, but also good at solving various difficulties in the spraying processes of cakes, bread, frozen dough, candies and other food. We provide customized solutions for our customers, to deliver safe, high-quality and -efficient release agents to food industry, ensuring that your products are presented perfectly.

PRODUCTION CAPACITY OF SPRAY GUN

喷枪生产能力



公司引进了国外先进的全自动加工设备，并自主研发了 SEADROPS 脱模油专用喷枪，荣获了国家专利。该喷枪适用于粘度范围在 100cp 至 1000cp 之间的产品做雾化喷涂，年产量超过 20000 件，赢得了良好的市场口碑。

The company has introduced fully automated processing equipment from abroad, and have developed SEADROPS specialized release oil spray gun independently, which has won national patent. This spray gun is suitable for atomization spraying with viscosity ranging from 100cp to 1000cp, and its yearly output reaches 20,000 pieces, achieving good market reputation.

PRODUCTION CAPACITY OF RELEASE AGENTS

烘焙脱模油生产能力



海滴天涂自主研发了烘焙脱模油的全自动生产线与生产工艺，整条生产线的自动化程度高达 95% 以上，确保了产品品质的稳定性和食品安全。通过十余年的一线市场实践，我们积累了丰富的产品应用经验，成功攻克了脱模油领域的多项核心技术难题。目前，公司一期的烘焙脱模油日生产能力达到 50 吨，二期扩产后，日产能将提升至 70 吨。

Haidi Tiantu independently developed automatic production line of baking release agents, with the total automation rate of the production line reaching more than 95%, ensuring stability and safety of the food product. With over ten years of experience on the market frontlines, the company has effectively solved core technical challenges related to release oil. Currently, the company produces 50 tons of baking release oil per day, with plans to expand to a daily capacity of 70 tons after the second phase of development.



为什么使用脱模油?

- 脱模效果：脱模油能有效防止食品粘附于模具或器具表面，确保产品轻松脱模，保持其完整性和美观性。
- 防止粘连：脱模油在食品与模具之间形成一层薄膜，避免产品粘连于模具表面，减少破损或损失。
- 提升质感：脱模油能赋予食品光滑质感，降低食品粘连、断裂或碎裂的风险，从而提升产品的质量和外观。
- 保护模具：脱模油还能有效减缓模具的磨损和腐蚀，延长模具的使用寿命，并降低维护成本。
- 便捷脱模：使用食品级脱模油，确保产品轻松脱模，为后续包装与运输带来极大便利。

WHY USE RELEASE OIL?

- 1.Release Effect: Release oil helps prevent food from adhering to the surface of molds or utensils, allowing the product easy separation from the utensil mould, ensuring the integrity and fancy appearance of the product.
- 2.Prevent Adhesion: Release oil forms a thin film between the food and the mold to prevent food from adhering to the mold surface and avoid damage or loss.
- 3.Better Appearance: Release oil makes the surface of food smooth, reduces the possibility of food adhesion, breakage or fragmentation, and improves the quality and appearance of the product.
- 4.Protect Mold: Release oil can reduce the wear and corrosion of the mold, extend the service life of the mold, and reduce the cost of maintenance and replacement.
- 5.Convenient Demoulding: Using food-grade demoulding oil can make food easily released from the mold, which is convenient for food packaging and transportation.

脱模油选择指南

HOW TO CHOOSE RELEASE AGENTS

在选择脱模油时，需综合考虑制作配方、焙烤工艺、模具类型、材质、表面涂层状况、新旧程度、产品保质期及包装形式等因素，以确保满足生产需求。

Choose the appropriate release agents, you need to consider processing recipe, baking process, baking tray or baking mold (type, material, surface coating, new and old degree), product shelf life and product packaging form.

蛋糕类型	Product Type
配方 (糕点)	Recipe (Confectionery)
产品保质期	Product shelf life
模具材料类型	Type and material of the mold
烘烤温度	Baking temperature
添加方式	Dosing method
目前使用的脱模油	The release oil currently used
目前存在的状况	Encountered Problem

脱模油应用方式

APPLICATION OF RELEASE AGENTS

刷子	Brush
手动喷枪	Manual Spray Gun
自动喷油机	Automatic Oil Sprayer Machine



SDV400 标配功能型

SEADROPS Standard Function Version



- **应用范围:** 适用于吐司盘、圆形盘、长方形盘、平盘模具等多种类型。
- **安装方式:** 工厂提供G4分内丝独立气源接头，供气管道内径需≥19mm，稳定气压为6kg，电源为220V与380V。
- **精准喷涂:** 台达伺服输送系统，精准定位喷涂，有效减少脱模油在模具表面的浪费。
- **高效过滤与压力调节:** 配备亚德客过滤器与减压阀，支持手动控制雾化和开枪压力，确保喷涂效果。
- **专业喷枪:** 采用海滴天涂SEADROPS蓝色专用喷枪，有效雾化直径范围在3cm-12cm之间，保障脱模效果。
- **成本控制:** 适合喷涂中低粘度脱模油，提高脱模油利用率，实现成本精准控制。
- **喷枪设计:** 单排喷枪设计，需人工调整喷枪位置以对应模具模孔。西门子系统支持保存4组模具参数，便于快速切换。
- **适用产品:** 根据产品浆料特点选择合适的脱模油，以达到最佳效果与产品质量。

- **Application:** Applicable to toast pans, circular pans, rectangular pans, flat pans and other various molds, etc.
- **Installation:** The factory provides independent air source connector with G4 screw; inner diameter of air hose ≥19mm; stable air pressure, 6kg; power supply, 220V & 380V.
- **Accuracy:** Delta servo conveyor ensures accurate position when spraying, to avoid waste of release oil.
- **Filter & Pressure Regulator:** Equipped with Airtac filter and pressure reducing valve, and you could control atomization and opening pressure by manually, to ensure the spraying effect.
- **Specialized Sprayer Gun:** Use the Haidi Tiantu SEADROPS specialized sprayer gun in blue color, with effective atomization diameter reaching between 3cm to 12 cm, ensuring the demoulding effect.
- **Cost Control:** Suitable for medium and low viscosity release oil; improve the utilization rate of release oil, so as to control cost.
- **Spray Gun Design:** Design of single-row of spray gun, needs to adjust the position of spray gun by manually, to position accurately against the mold hole. SIMENS support saving 4 groups of mold parameters for easy operation.
- **Applicable to:** Choose appropriate release agents according to the texture of the dough.

技术规格	参数值	TECHNICAL SPECIFICATIONS	PARAMETER
供电电压	AC 220V	Power supply voltage	AC 220V
气源压力	≥6bar	Air source pressure	≥6bar
输送长度	1600mm (可定制)	Conveying length	1600mm(customizable)
输送宽度	720mm (可定制)	Conveying width	720mm(customizable)
雾化压力	手动控制0~6bar	Atomization pressure	Manually control 0~6bar
开枪压力	手动控制0~6bar	Opening Pressure	Manually control 0~6bar
输送系统	0.4KW	Conveying system	0.4KW



SDV800 高配全自动型

SEADROPS AUTOMATIC QUANTITATIVE ATOMIZING OIL SPRAYER MACHINE



技术规格	参数值	TECHNICAL SPECIFICATIONS	PARAMETER
供电电压	AC 220V	Power supply voltage	AC 220V
气源压力	≥6bar	Air source pressure	≥6bar
输送长度	2300mm (可定制)	Conveying length	3200mm(customizable)
输送宽度	920mm (可定制)	Conveying width	920mm(customizable)
雾化压力	手动控制0~6bar	Atomization pressure	Manually control 0~6bar
开枪压力	手动控制0~6bar	Opening Pressure	Manually control 0~6bar
输送系统	0.75KW	Conveying system	0.75KW

- **应用范围:** 同样广泛适用于吐司盘、圆形盘、长方形盘、平盘模具等多种喷涂需求。
- **安装方式:** 工厂提供 G4 分内丝独立气源接头, 供气管道内径需≥19mm, 稳定气压为 6kg, 电源为 220V 与 380V。
- **精准喷涂:** 采用西门子双系统控制伺服输送, 实现精准定位喷涂, 有效减少脱模油在模具表面的浪费, 避免对模具的污染。系统支持保存 4-8 组模具参数, 全自动操作模式, 一键快速切换模具喷涂应用。
- **高效过滤与压力调节:** 配备德国费斯托精密气体过滤器与减压阀, 该系统能够自动控制雾化和开枪压力, 确保喷涂质量。对于 800x800 模具, 喷涂速度可达 3-4 秒/盘, 显著提升生产效率。
- **专业喷枪:** 采用海滴天涂 SEADROPS 不锈钢专用喷枪, 多级气流技术, 超高雾化能力, 喷涂直径范围在 3 cm 至 12 cm 之间, 确保脱模效果。特别适合喷涂高粘度脱模油, 有助节省脱模油喷涂量, 提高脱模油利用率, 同时精准控制成本。
- **喷枪设计:** 采用单排或双排喷枪设计, 彻底解决了人工重复调整喷枪位置导致生产不稳定的问题, 提高生产效率和稳定性。
- **选配:** 微油雾收集器, 确保车间环境无污染。
- **选配软件:** 此软件可自动统计每日生产数据及脱模油使用量, 便于进行精细分析以有效控制生产成本。
- **选配供油硬件:**
 1. 进口隔膜泵供油, 操作简单方便。
 2. 不锈钢齿轮泵供油, 超长使用寿命, 高稳定性 / 低维护。
- **适用产品:** 根据产品浆料特点选择合适的脱模油, 以达到最佳效果与产品质量。

- **Application:** Applicable to toast pans, circular pans, rectangular pans, flat pans and other various molds, etc.
- **Installation:** The factory provides independent air source connector with G4 screw; inner diameter of air hose ≥19mm; stable air pressure, 6kg; power supply, 220V & 380V.
- **Accuracy:** Adopt SIMENS dual system servo convey; enable spraying position precisely accurate; waste control, able to avoid release oil spraying on the surface of the mold; the system supports saving 4 to 8 groups of mold parameters for thoroughly automatic operation. Just one click, then switch to spraying mode.
- **Filter & Pressure Regulator:** Equipped with German FESTO air filter and pressure reducing valve, which could control the atomization and opening pressure automatically, to ensure the spraying effect. Regarding to the mold with size 800x800, the spraying speed could reach 3 to 4 seconds per pan, improving the production efficiency.
- **Specialized Sprayer Gun:** Use the Haidi Tiantu SEADROPS specialized stainless sprayer gun, which adopts multi-stage airflow, with atomization ability ultra high. The atomization diameter reaches between 3 cm to 12 cm, ensuring demolding effect. It is suitable for spraying high viscosity release oil, able to save 15% of oil, improving utilization rate and accurately control cost.
- **Sprayer gun design:** Adopting single or double row spray gun design, it completely solves the problem of instability caused by manually adjusting the spray gun position, which improves production efficiency and stability.
- **Optional Features:**
 - **Option One, Micro Oil Mist Collector:** This ensures a pollution-free workshop environment.
 - **Option Two, Production Management Software:** This could automatically calculate daily usage quantity of the release oil, easy for precise analysis, so as to save control.
 - **Option Three, Hardware of oil relevant:**
 - A, Imported Diaphragm Valve Oil Supply, easy to operate.
 - B, Stainless Steel Grease Oil Supply, which provides an ultra-long service life with high stability and low maintenance requirements.
- **Applicable to:** Choose appropriate release agents according to the texture of the dough, to reach the best performance.





SEADROPS
HD Pro One
Filming Agents
HD Pro 1 被膜剂

本品是一款脱模剂，专为糖果脱模而设计。它以食品级白油与棕榈蜡为基础原料，展现出优异的粘附能力与流动性。特点包括喷涂量少、易脱模、糖果表面不油腻且无异味，尤其适用于长保质期产品的生产。

This is release agents specifically designed for candy demoulding. It is formulated with food-grade white oil and palm wax, presenting excellent adhesion and fluidity. Key features include a small spraying amount, easy demoulding, and a non-greasy, odorless candy surface, making it particularly suitable for the production of long-shelf-life products.

SEADROPS
HD Pro Two
Dough Dividing Oil
HD Pro 2面团分割油

这是一款低粘稠型的分割油，采用植物油、棕榈蜡及磷脂为原料精心配制。它特别针对使用了1至8年的面团分割设备设计，适用于面团的分割和面包的切片过程。该油能为刀片和活塞提供卓越的保护，有效防止其损伤，确保设备长期稳定运行。同时，它也可用于面团料斗的润滑、面盆的防粘处理以及面包切割机的润滑，全面提升烘焙生产的顺畅度和效率。

This low-viscosity dividing oil is carefully formulated with vegetable oil, palm wax, and lecithin as raw materials. It is specially designed for dough dividing equipment that has been used for 1 to 8 years and is suitable for dough dividing and bread slicing processes. The oil provides excellent protection for blades and pistons, effectively preventing damage and ensuring long-term stable operation of the equipment. Additionally, it can be used for lubrication of dough hoppers, anti-stick treatment of dough basins, and lubrication of bread cutters, comprehensively improving the smoothness and efficiency of baking production.

SEADROPS
Release oil
HD100
SEADROPS 脱模油

包装: 20Lx60 桶 / 仓板, 或 1000L/ 桶
应用领域: 适用于面包、披萨等模具脱模, 尤其适合短保质期烘焙产品。

PACKAGING: 20Lx60 buckets/pallet, or 1000L/barrel
APPLICATION: Applicable to bread, pizza, and other demoulding scenario, suitable for short-shelf-life baking products.

SEADROPS
Release oil
HD200
SEADROPS 脱模油

包装: 20Lx60 桶 / 仓板, 或 1000L/ 桶
产品特点: 有效解决蛋糕起皮掉底问题, 不影响产品起发度, 增强产品支撑力, 是中短保质期烘焙产品的理想选择。
应用领域: 轻油蛋糕、海绵体蛋糕脱模。

PACKAGING: 20Lx60 buckets/pallet, or 1000L/barrel
RELEASE ABILITY: Medium
PRODUCT FEATURES: Effectively solves the issues of cake peeling and bottom falling without affecting the product yeasting degree. Enhance the product's support degree, making it an ideal choice for medium- and short-shelf-life baked products.
APPLICABLE TO: Suitable for demoulding light oil cakes and sponge cakes.

SEADROPS
Handheld Can of
Release Agents
HD300
手持喷罐脱模油

适用于小型门店、中央工厂, 多品类面包及蛋糕模具等, 以及冷冻、冷藏类产品的脱模需求。其使用方式方便快捷, 是提升生产效率的理想选择。

PACKAGING: 600mlx12 bottles/carton, 60cartons/pallet
APPLICABLE TO: This product is suitable for small stores, central factories, and multi-category bread and cake molds, as well as for the demoulding needs of frozen and refrigerated products. It is convenient and quick to use, making it an ideal choice for improving production efficiency.

SEADROPS
Release oil
HD400
SEADROPS 脱模油

包装: 20Lx60 桶 / 仓板, 或 1000L/ 桶
产品特点: 使蛋糕成品细腻柔软, 含油量低且不油腻, 非常适合中长保质期的烘焙产品。
应用领域: 戚风蛋糕、半蒸半烤类蛋糕的脱模。

PACKAGING: 20Lx60 buckets/pallet, or 1000L/barrel
RELEASE ABILITY: Strong
PRODUCT FEATURES: Make the final finished goods delicate and soft, containing low oil so the goods is non-greasy. It is very suitable for medium- and long-shelf-life baked products.
APPLICABLE TO: Suitable for demoulding chiffon cakes or semi-steamed and -baked cakes.

SEADROPS
Release oil
HD600
SEADROPS 脱模油

包装: 20Lx60 桶 / 仓板, 或 1000L/ 桶
产品特点: 能良好地粘附在热模具 (>50°C) 表面, 适合非常难脱模的产品
应用领域: 针对高糖、高蛋白、无油等难脱模产品, 以及长保质期产品和各类难脱模的烘焙器具, 具有卓越的脱模效果且不损伤最终产品。

PACKAGING: 20Lx60 buckets/pallet, or 1000L/barrel
RELEASE ABILITY: Strong
PRODUCT FEATURES: Adheres well to the surface of hot molds (>50°C), suitable for products which are particularly difficult to demould.
APPLICABLE TO: Effective for high-sugar, high-egg, oil-free, and other hard-to-demould products, as well as long-shelf-life products and various difficult-to-demould baking utensils. It provides excellent demoulding results without damaging the finished goods.

SEADROPS
Release oil
HD1000
SEADROPS 脱模油

包装: 20Lx60 桶 / 仓板, 或 1000L/ 桶
产品特点: 蛋糕成品细腻松软, 不影响产品风味与口感, 是中长保质期烘焙产品的理想选择。
应用领域: 能很好地粘附在热模具 (>50°C) 表面, 适用于轻油蛋糕、海绵蛋糕、戚风蛋糕、以及高糖、高蛋白、高油和白体蛋糕等非常难脱模的产品。

PACKAGING: 20Lx60 buckets/pallet, or 1000L/barrel
RELEASE ABILITY: Extremely Strong
PRODUCT FEATURES: Produces a delicate and soft finished cake that does not affect the flavor or taste of the product. It is an ideal choice for medium- and long-shelf-life baked products.
APPLICABLE TO: Adheres well to the surface of hot molds (>50°C) and is suitable for very difficult-to-demould products, including light oil cakes, sponge cakes, chiffon cakes, as well as high-sugar, high-egg, high-oil, and white cakes.