





Rehm Thermal Systems Dongguan 锐德东莞

very times for a competitive price.

Ralf Wagenführ, Titan Huang, Johnson Ma

The main strategy of establishing pro- 锐德热力设备有限公司在中国建立工厂的 duction facilities in China was to com- 主要战略是: 将中国的人力资源和市场潜 bine the quality and technology from 力与德国的品质和技术有力地相结合。以 Germany with the manpower and mar- 东莞工厂为中心,我们即可凭借顶级品 ket potential in China. With the factory 质、快捷交付速度为SMT市场提供热力系 in Dongguan, Rehm Thermal Systems 统领域最新技术,同时可开出具备竞争力 can support its latest technology in ther- 的价格。锐德热力设备(东莞)有限公司 mal systems for the SMT market with the 实施国际化管理,确保可提供高品质产 highest quality standard and short deli- 品,同时可灵活、快速地应对客户需求。







Our strength lies in our innovative spirit institutes and universities. involving key customers, by collations for economical electronic PCB borating with other companies and manufacturing. through partnerships with research

and in-house R&D. We develop pionee- Therefore Rehm Thermal Systems 力。通过与主要客户互动、与伙伴公司合 ring products for automotive appli- GmbH is setting new international 作以及与研究所、大学紧密合作,我们得 cations, telecommunications, TV and standards in the development of inert 以不断研发出开拓性产品,产品涉及自动 video technology, computer elec- gas reflow soldering systems and the 化应用、电信、电视和视频技术、计算机 tronics and industrial electronics by design of customer-specific applica- 电子以及工业电子领域。





Rehm Global Coverage

服务网络

With Rehm as your partner, you're auto matically linked to our worldwide service network. Our service engineers are placed at your disposal within 24 hours. And our experts are also available on the weekend via a service hotline which has been set up especially to this end.

携手锐德, 便与我们的全球服务网 络自动对接。但凡您需要, 我们的 服务人员均可根据您的要求在24 小时内上门服务。即便在周末, 您也可以通过服务热线联系我们 的专家, 该热线专门为此开通。

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VisionXC

Precise Process Control powered by Germany



Our Mission: Success for Our Customers!

The key to long-term, sustainable cli- gree of vertical integration, a compre- 我们的目标是进一步加强我们的技术领导 ent relationships is the success of our hensive product range and optimized 地位。要实现该目标不仅需要持之以恒的 customers. After all, the success of logistics. Thanks to many years of expe- 研发工作,更离不开我们与客户和研究机 our customers is our success as well. rience and know-how, we're the right 构的紧密合作 Our goal is to further expand our partner for you. technology leadership. This objective not only necessitates continuous R&D 客户的成功是我们能够保持长期、稳定客 力,全面的产品范围和优质的物流服务。 work, but rather intensive collabo- 户关系的关键。毕竟,只有客户成功才能 凭借多年的积淀和专业知识,我们将成为 ration with our customers, and with 成就我们的成功。 research institutes as well.

As manufacturers, we have a high de-Our Strategy: Expansion with Sustainability

Research / Development

Close co-operation with institutes and Continuous optimization of all business Expansion of production capacity, in research facilities for customer oriented processes emphasizing on extremely order to sustainably fulfill the requireprocess optimization.

Development of economic solutions in dialog with our customers and partners.

与客户及合作伙伴沟通, 致力于研发经济

型解决方案。

Process Optimization

high levels of quality management. ments of our customers in the long-term

加强同研究机构的亲密合作,实现客户导。高度重视高级品质管理,不断优化各种业。可扩展的生产能力,不断满足客户的长远。

Expansion

您理想的合作伙伴

Our Profile: High Quality by German Engineering

• Thermal Systems from 50 °C to 1000 °C 热力系统温度 50 ℃ 到 1000 ℃

> your single source supplier 您的唯一供应商

• 75 % of the systems installed in High-End Production 75%的系统应用于高端生产过程

→ Know-How for heaviest demands 拥有满足于最苛刻要求的专业知识

High vertical integration

→ 100 % quality controlled by Rehm 来自锐德总部的100%质量控制

 Global Presence 遍布全球

> fast reaction time 快速反应

Consistently well thought-out technology and outstanding workmanship are standard features with our reflow soldering systems. Customer-specific process requirements and optimized manufacturing technology, together with the corresponding economic requirements, are implemented in an ideal fashion. And the systems are available for use with either an air or a nitrogen atmosphere.

始终如一的精湛技术和杰出的工艺是回流焊接系统的标 准特征。此类模块化系统可为您提供稳定、重复精度高 的焊接技术。将客户对过程的特定要求、最优的制造技 术与相应的经济性需求完美的融合在一起。同时,该系 统可采用空气或氯气工作。

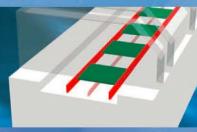
Simply. More. Flexibility.

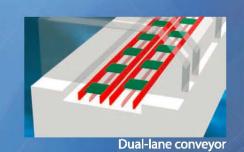
Transport System 传输系统

free production. The adjustment of the contamination. The drive mechanism of the transport transport rails.

An absolutely parallel transport of the system is located outside the pro- 系统以绝对平行方式在炉膛中传输贴装组 assembly groups through the oven is cess chamber and thus is protected 件,是确保生产稳定、无故障的前提。传 a prerequisite for a reliable, trouble- from thermal influence and also from 输系统调整将通过低维护的螺纹主轴进 行。增量传感器可确保高重复性、高精度 ransport system is carried out by means The parallelism of the transport systems 定位,从而对所需轨道宽度进行准确设 of low-maintenance threaded spindles. is ensured through multiple-guided 置。传输系统的驱动机制位于处理室之 外,避免受到热力影响或接触污染物。







Asynchronous transport speed 同步传输速度

Flexibility for your production 灵活应对生产要求

Using our dual lane transport system with asynchronuous transport speed enables you to produce different boards in one oven.

可异步控制的双导轨传输系统,可在同一炉膛内同时 生产不同的电路板,增加了生产灵活性。

Reliable Center Board Support 可靠的中央板支撑

Additional advantage for flexibility 灵活性的额外优势

The CBS option makes it possible to process large panel formats - an additional advantage for flexible manufacturing! The CBS can be easily placed in its parking position when it is not used for the running

凭借可选的中央支撑,您可处理大型电路板——这是 确保生产灵活的又一优势! 当生产的产品不需要中心 板支撑时,可轻松将其置于右图所示停驻位置。

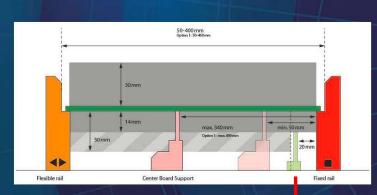
Accurate Transport System

精确的运输系统

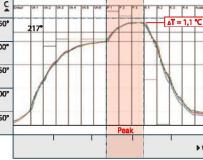
Automatical transport control 自动运输控制

Incremental transmitters ensure high, repeatable accurate positioning and a precise setting of the required lane width.

增量传感器可确保高重复性、高精度的定位,从而对



Parking position CBS CBS停驻位置



Smallest ΔT

Temperature profile

最小温差 AT

Ideal Heat Transfer for all loading conditions 满足不同生产模式的理想热传导

vidually, with an optimum thermal separation from each an absolute homogeneous heating of the package. This 定性。

All heating zones of the Vision C are controlled indiresults in best process stability with minimum ΔT

other, this mimimizes thermal influence of adjacent VisionXC所有受热区域均可单独控制,每个区域之间保持最 zones. Thereby a flexible profile guidance and a stable 佳隔热距离,降低了相邻区域的热影响,从而确保了灵活的 reflow process are ensured. Special design of hole type 曲线控制和稳定的回流过程。孔型喷嘴区域的独特设计可使 nozzle fields provides a homogeneous heat input of 整个处理区域内的过程气体均匀受热,从而实现对元器件的 the process gas over the entire process zone and thus 绝对均匀加热。这便实现了具有最低温差ΔT的最佳过程稳

Rehm Thermal Systems									
Item	Temp 1	Temp 2	Temp 3	Temp 4 251.1					
unloading 1	251.1	251.1	250.6						
unloading 2	251.1	251.1	250.6	250.6					
unloading 3	251.7	251.1	250.0	250.0					
Average	251,3	251,1	250,4	250.6					
Full loading 1	251.1	251.7	250.6	250.0					
Full loading 2	250.6	250.6	249.4	249.4					
Full loading 3	251.1	251.1	249.4	249.4					
Average	250.9	251.1	249.8	249.6					
Average Delta T	0.4	0	0.6	1.0					
Delta T Average		0.	.5						

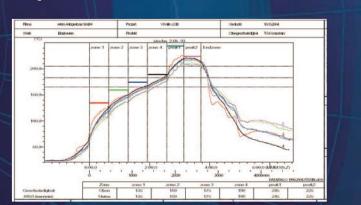
Best thermal performance for lead and leadfree processes!

Best Profiling 最佳温度曲线

Absolutely reliable profiles 绝对可靠的温度曲线

The special design of our system and the optimal thermal performance guarantee reliable and reproducible profiles for lead and lead-free

系统的独特设计和最优的热力性能确保了含铅和无铅 制程的稳定性,同时具有重复精度高的温度曲线



Simply. More. Experience.





Adjustable cooling gradients 可调节的冷却梯度



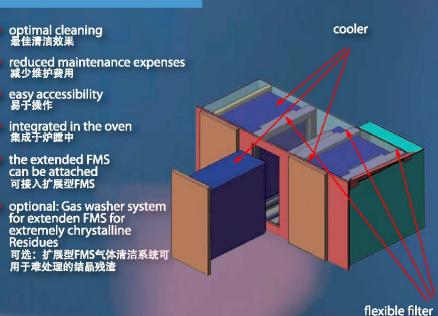
The cooling tract in the Vision C nitro is laid out in 4 stages. The fans in the individual zones, which can be controlled separately as an option, allow for accurate control, and cooling gradients can be correspondingly adjusted. This assures stress-free cooling for your PCBs, for lead-free soldering as well. VisionXC配备4个冷却区。每个冷却区中的风扇 可选择单独控制, 可精确地控制冷却过程, 进而 控制相应的冷却梯度。这确保了冷却过程无应力

Flux Management System 残渣处理系统

Modular concept for easy cleaning and reduced maintenance 易于清洗且维护量少的模块化概念

Residues which accumulate during soldering are sepa- optimal cleaning 最佳清洁效果 rated by a new flux management system included in Vision C systems. Therefore the residues are exhausted reduced maintenance expenses 减少维护费用 downwards to the integrated FMS.Depending on the system length, it is equipped with a 2 or 3-stage Flux easy accessibility 易于操作 Management System. Each stage consists of a cooling and a filter unit. With this combination liquid and integrated in the oven 集成于护膛中 crystalline, residues can be drastically reduced. Out of this you gain the big advantage of a lower rate of main- the extended FMS tainance intervals and a higher efficiency in working. can be attached 可接入扩展型FMS

新研制的残渣处理系统(VisionXC系统的一部分)将焊接 optional: Gas washer syster 就积中和燃的成资分离出来,并进入焦成的FMS系统中。 for extenden FMS for 过程中积攒的残渣分离出来,并进入集成的FMS系统中。 根据不同机型系统的长度,可配备2或3段式残渣处理系 统。每段回收单元包含一个冷却和过滤装置。可大幅减少 液体和助焊剂结晶残留。使用此系统,您可减少维护频率 及时间、提高生产效率及经济过益



Energy Saving Concept

节能理念

Expandable systems with low energy consumption and minimal emissions are the basis of our company philosophy.

可扩展、低能耗和小排放是锐德的基本产品理念。



Modular Design 模块化设计

The system types 系统类型

	50	VisionXC	Series				
System type	634A	634N	734A	734N	834A	834N	
Length	5340 mm	6040 mm	5690 mm	6390 mm	6040 mm	6740 mm	
Width	1436 mm						
Height	1564 mm						
Number of zones	13	13	14	14	15	15	
Heating zone length	3150 mm	3150 mm	3500 mm	3500 mm	3850 mm	3850 mm	
Energy consuption standbby-mode	8,5 kW	9 kW	9,4 kW	9,9 kW	10,3 kW	10,8 kW	

