成立于1960年的Heller公司，在二十世纪九十年代首创对流式回流焊接。 多年来，Heller与我们的客户一起合作对系统加以千锤百炼，以满足先进的应用要求。 通过不断挑战和革新，Heller一直是回流焊接技术方面的领导者。

Heller Industries was founded in 1960 and pioneered convection reflow soldering in the 1980's. Over the years, Heller has partnered with its customers to continually refine the systems to satisfy advanced applications requirements. By embracing challenge and change, Heller has earned the position of World Leader in Reflow Technology.



Benefits of Partnering with the World Leader / 携手Heller, 创新价值

作为回流焊接的领导者，Heller不仅致力于为客户提供最先进的回流焊技术，还能为客户创造其他重要的价值。

In addition to getting the best oven technology, working with the industry leader carries many other important benefits:

- **Partnership:** 合作伙伴关系—通过与客户密切合作，我们提供的VIP式的服务和支持成为业界的口碑。
  By working closely with our customers, we provide the kind of V.I.P. service and support that has come to symbolize Heller Industries.
- **Corporate Strength and Longevity:** 公司实力—涉足电子行业长达48年的经验，使Heller公司拥有强大的实力和完善的管理制度，从而能为客户提供长期，稳定和持久的服务。
  Over 50 years in the electronics industry gives us a solid corporate and management base that ensures stability and continued support.
- **Direct Access to Upper Management:** 与客户高层管理人员直接沟通--我们的高层管理人员定期拜访客户，以获取客户宝贵的意见。通过聆听需求，我们致力于为客户提供更优质的服务。
  Our upper management staff is continually traveling to meet our customers to gain their feedback and input. *We find that by listening we can better serve our clientele.*
- **Distributed "Lean" Manufacturing:** 分布式精益制造—我们在中国，韩国和马来西亚的三个工厂实现本地化运作，并利用"准确复制"模式保证每台焊炉和每个工厂达到6 Sigma标准。
  With factories in China, Korea and Malaysia, we can provide "local" sourcing and utilize a "copy exactly" paradigm that ensures Six Sigma performance oven-to-oven and factory-to-factory.

欢迎您访问我们的三个高级研究中心。除了拥有世界级的制造环境之外，我们还成立了"Heller大学"，帮助客户学习无铅制程，故障诊断和先进的应用工艺解决方案。

结合Heller无与伦比的专业技术优势和制造及战略支持中心区域化的商业模式，Heller将全面推进"本地化"发展，而不单纯只是本地化生产。Heller提供的本地化设计，服务，备件，制程技术和培训，使Heller超越众多竞争者，成为世界一流的回流焊接系统的供应商，是客户明智的选择。



Heller China



Heller Korea



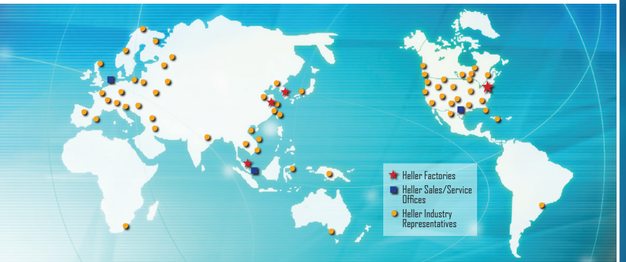
Heller Malaysia



Heller USA

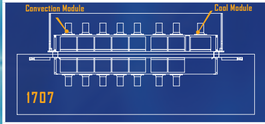
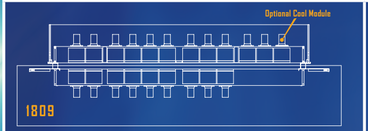
We welcome you to visit any of our three Centers for Excellence. In addition to a world class manufacturing environment, operators and engineers can attend "Heller University" to learn about lead-free processing, troubleshooting and advanced applications solutions.

ISO 9001 QMS CERTIFIED



Combining our unmatched engineering expertise with a business model that focuses on regional manufacturing and strategic support centers, Heller provides a "local" presence that goes beyond simple manufacturing. Localized engineering, service, spares, process support and training facilities separate Heller from the competition and make us the obvious choice for reflow soldering solutions worldwide.

The Mark III Reflow System Series

MK III Models	Overall Length	# of Heated Zones	# of Cooling Zones
	134" 340 cm	7 Top 7 Bottom	1 Bottom Cool optional
	183" 465 cm	9 Top 9 Bottom	2 Top (std) 3 Top optional Bottom Cool optional
	232" 589 cm	13 Top 13 Bottom	3 Top Air 4 Top Nitro Bottom Cool optional

HELLER INDUSTRIES
THE TECHNOLOGY LEADER
技 术 领 导 者

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973.377.6800	512.454.4057	+441.16.223.8107	+65.6832.5917	+82.31.740.9210	+86.21.6442.6180	+81.6.6133.5456
ddeangelo@hellerindustries.com	kvirden@hellerindustries.com	pmartin@hellerindustries.com	sskwa@hellerindustries.com	hpark@hellerindustries.co.kr	jwu@hellerindustries.com	japaninfo@hellerindustries.com

Rev 4/13

Mark III Series Reflow System

Advanced Technology for Demanding Processes

Now with NEW Flux Collection System and Enhanced Cooling!



HELLER INDUSTRIES
THE TECHNOLOGY LEADER

Mark III

ADVANCED TECHNOLOGY FOR DEMANDING PROCESSES

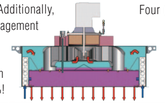
随着最新的技术突破，Heller推出了全新的MK III回流系统，为客户提供了更为经济实用的方案。 新型的加热和冷却技术能最大限度地减少氮气和电力的消耗，省电省氮可高达40%。 因此，MK III系列回流炉不仅是性能卓越的回流系统，更是业界最具经济价值的回流系统。

The latest breakthroughs associated with the Mark III (MK III) reflow system now provide you with an even lower cost-of-ownership. Heller's new heating and cooling advances deliver up to 40% reduction in nitrogen and electrical consumption. This makes the MK III system not only the premier reflow soldering system but the best overall value in the industry!

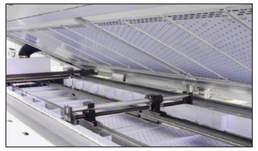
Enhanced Heater Modules
优化的加热模组

优化的覆盖式加热模组可有效的加热PCB 板，即使在最复杂的板子上也可获得最低的Delta T. 除此之外，这种均衡气流管理系统消除了"不均衡气流"，从而可节约氮气高达40%。

Enhanced heater modules "blanket" the PCB with heat for the lowest Delta Ts on the toughest boards! Additionally, the Uniform Gas Management system eliminates "net flow" which results in nitrogen consumption reductions of up to 40%!



Ultra-Parallel Conveyor System
超平行导轨系统



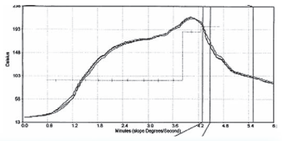
四组丝杠的新设计，保证导轨的最佳平行度及最小误差 — 即使3mm的板边边距。

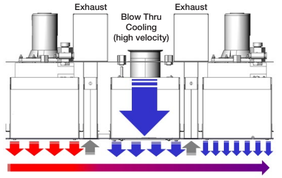
Four (4) lead screws ensures the tightest tolerances and parallelism — even on boards with 3mm clearance at the edges!

A Heller Exclusive! / 独家专有

Heller独有的10英寸(250mm)加热模组设计，每个加热模组比其它同类产品减少2英寸（50mm）， 因此Heller可以在同样的长度下可提供更多的加热模组，从而提供更好的制程控制，减少17%的液态时间，可满足最严苛的制程要求。

Heller's 10" (250mm) long heater modules are 2" (50mm) narrower than our competitors so we can provide more modules than anyone in the industry! More modules means more process control and a 17% lower liquid time for the tightest tolerances of all!



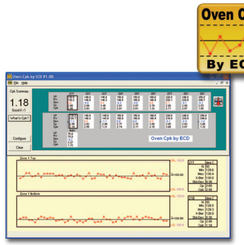


Fastest Cooling Rates
最快的冷却速率

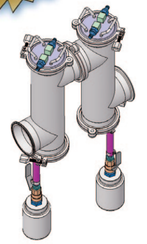
新型的 blow through（强冷风）冷却模组可提供3度/秒以上的冷却速率，即使在LGA775上也不例外。 此项设计可符合最严苛的无铅温度曲线要求。

The new blow thru cooling module provides cool rates of >3 deg C/Sec — even on LGA 775! That rate meets even the most demanding Lead-Free Profile requirements!





NEW!



Process Control / 创新的制程控制

由ECD公司开发的革新性软件系统提供了三种层次的制程控制，分别是回流炉Cpk，制程Cpk和产品追踪控制。 此软件可确保所有参数的最优化，及时的报告和使用方便。

Powered by ECD, this innovative software package provides three levels of process control from Oven CpK, to Process CpK and Product Traceability, this software ensures that all parameters are optimized and SPC reporting is fast and easy.

New Frame / 新型外观设计

新型外观设计简单优美，更具双倍隔热功能，可有效降低热损失，省电高达40%。

More than simply beautiful, this new frame utilizes twice the insulation. This modification alone, reduces heat loss and saves up to 40% on electricity costs!

New "Cool Pipi" Flux System Virtually Eliminates Maintenance / 新"冷凝导管"实现助焊剂回收免保养

我们的新式冷凝导管及时地将助焊剂回收在收集瓶里，而且容易更换清理，更好的是可以实现在线保养-因此大大地节省了保养时间。我们发明的炉膛无助焊剂残留系统使得冷却区炉膛没有助焊剂残留-不仅减少了保养的时间，更为客户争取了生产时间-这使Heller的系统比其它品牌的炉子具有更高的生产率。

Our new "Cool Pipe" flux collection system traps the flux in collection jars that can easily be removed and replaced while the oven is running—thus saving time consuming P.M. Additionally, our proprietary "Flux Free Grill System" limits flux residue on the cooling grills—the result is not only reduced maintenance time, but recaptured production time—thus giving the Heller system the highest production yields of any oven!

The World's Best Convection Reflow Oven



Recognized Leadership / 业界领先

以技术为推动，以客户为核心，并通过与客户密切合作的方式，使Heller数年来一直保持业界领先地位。 获得了多家业内权威机构的认可，包括获得三次久负盛名的远见奖（新产品创新奖），两次市场领导者奖，两次优秀服务奖，多次优秀供应商奖等， 并被推选为多个业界组织的委员会委员及执行董事。
这些获奖和任命，证明了我们的领导地位，当然更重要的是表明了Heller一直在站在科技的前沿， 不断比我们的竞争对手更多，更快地为市场带来具有深远意义的技术革新。

Our focus on technology-driven solutions in partnership with our customers has been consistently recognized throughout the years by several industry agenciesincluding three Vision Awards for new product innovation, two Market Leadership Awards, two Service Excellence Awards, several awards for vendor excellence and appoint-ments to prominent positions on Industry committees and boards. Certainly these awards and appointments validate our market leadership; but they also confirm that Heller is at the forefront of the technology curve — constantly bringing new innovations to market faster and with greater impact than our competitors.



WINNER – SMT Reflow Soldering Equipment Market Share Leader Award

Market Leadership 价值创新

由于发明了第一套无水/无过滤器的助焊剂分离系统， Heller获得了在回流焊创新领域久负盛名的远见奖。 而这项发明更为深远的意义是，回流焊炉预防性保养的周期从数周延长到了数月，为客户创造了巨大价值。

Heller's constant drive to advance the technology is well known. But it is our global presence with four factories and local service in all major markets that has created long-term customer partnerships within our industry. This "Glo-Cal" business model (**GLO**bal company with Lo**CAL** strength) has earned Heller the Market Leader position. Frost & Sullivan has confirmed this leadership position with the 2013 Frost & Sullivan Global Market Share Leader Award.

1700 MKIII Series 系列



- 1707 Mark III

目前市场上最经济型的产品，适合于小批量试产或中等批量生产，具备以前只有在高端产品上才有的先进特性。

The best value in the market! Ideal for start-ups or medium volume production. Includes advanced features previously found on premium systems.

1800 MKIII Series 系列



- 1809 Mark III
- 1809 Mark III (with optional 3rd cooling zone)

为大量生产要求定制的产品，性能稳定优越， 大幅减少保养时间，占地面积小。

These workhorses provide consistent performance for high volume requirements while minimizing preventative maintenance and floorspace.

1900 MKIII Series 系列



- 1913 Mark III Non-LGA
- 1913 Mark III LGA

为超高产量要求设计的产品，链条速度可达140cm/min，能配合最快的贴片机进行生产。 可提供最高的稳定性， 最小的Delta T。

The ultimate high volume production solution with belt speeds up to 1.4m/min to accommodate the fastest pick-and-place systems. The 1913 MKIII delivers the highest levels of repeatability with the lowest delta Ts.

Mark III