



DOMINO



药品赋码合规性 实施经验分享

范意

Domino 生命科学行业 高级销售经理



Domino?

Domino. Do more.

弗戈制药工程国际论坛资料，严禁转作他用

弗戈制药工程国际论坛资料，严禁转作他用





不只是
高品质 + 易安装
MORE THAN
HIGH QUALITY +

弗戈制药工程国际论坛资料， 严禁转作他用
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为什么实施药品追溯？

全球药品供应链背景



全球背景:

根据世界卫生组织 (WHO) 估算, 全球售出处方药中约有10%是假冒药, 在有些国家, 假冒药甚至高达40%。

为应对日益增加的药品流通问题, 美国与欧盟相继出台了药品追溯法规, 以在供应链各个环节实现对药品安全的监管。





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药品赋码变革

Domino. Do more.

弗戈制药工程国际论坛资料，严禁转作他用

药品赋码应用的变革



Batch and Use by
批号与有效期

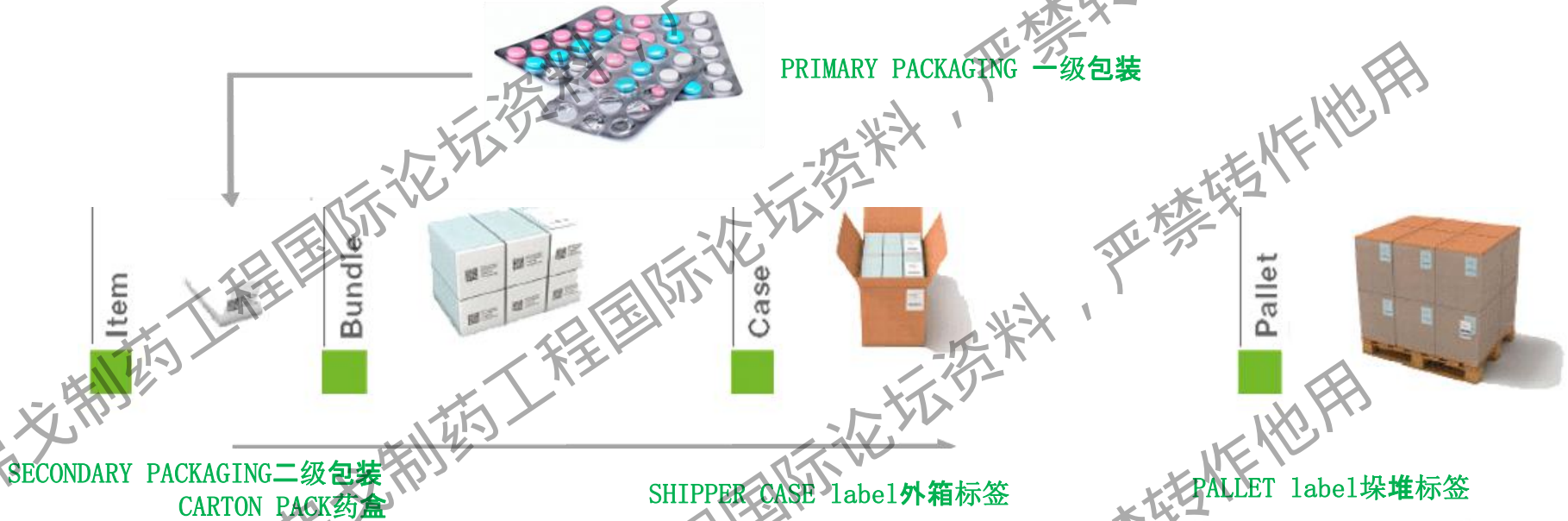
Increased
Traceability

Batch of One
一物一码

Full Traceability
全程的可追溯性

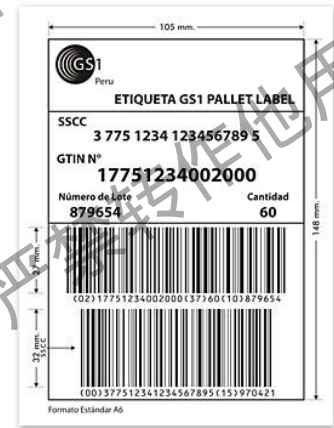
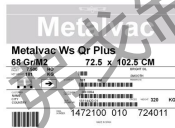


Full Traceability Coding 全程可追溯的赋码



CIP: 12345678912345
Lot: 123456789
EXP: 052011
UCN: 12345678912345

BUNDLE label 捆装标签



All serial numbers are linked
所有的序列号都是相互关联的

The countdown is on...

倒计时已经开始...





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药品赋码合规性实施

Medicines can disappear in the supply chain for up to 3 years



DOMINO

药品在供应链中一般存在最长3年左右



标识不能长期持久就没有药品追溯



- 配套的条码在整个供应链中在各种扫描器下必须都是可读的
- 持久的标识是关键！



Pharmaceutical Packing Examples 医药包装的样式



Serialisation Coding - TIJ

TIJ喷墨赋码技术-盒、瓶、标签



✓ Unique ink darker than any other ink ⇒ better code quality

独特的墨水：与其他任何墨水相比，赋码颜色更深，标识品质更高

✓ Reduced reject rates because of better code quality

标识品质更高，降低废品率

✓ Virtually no loss of code quality over time (>5 years)

长期 (>5年) 使用，赋码品质也不会降低

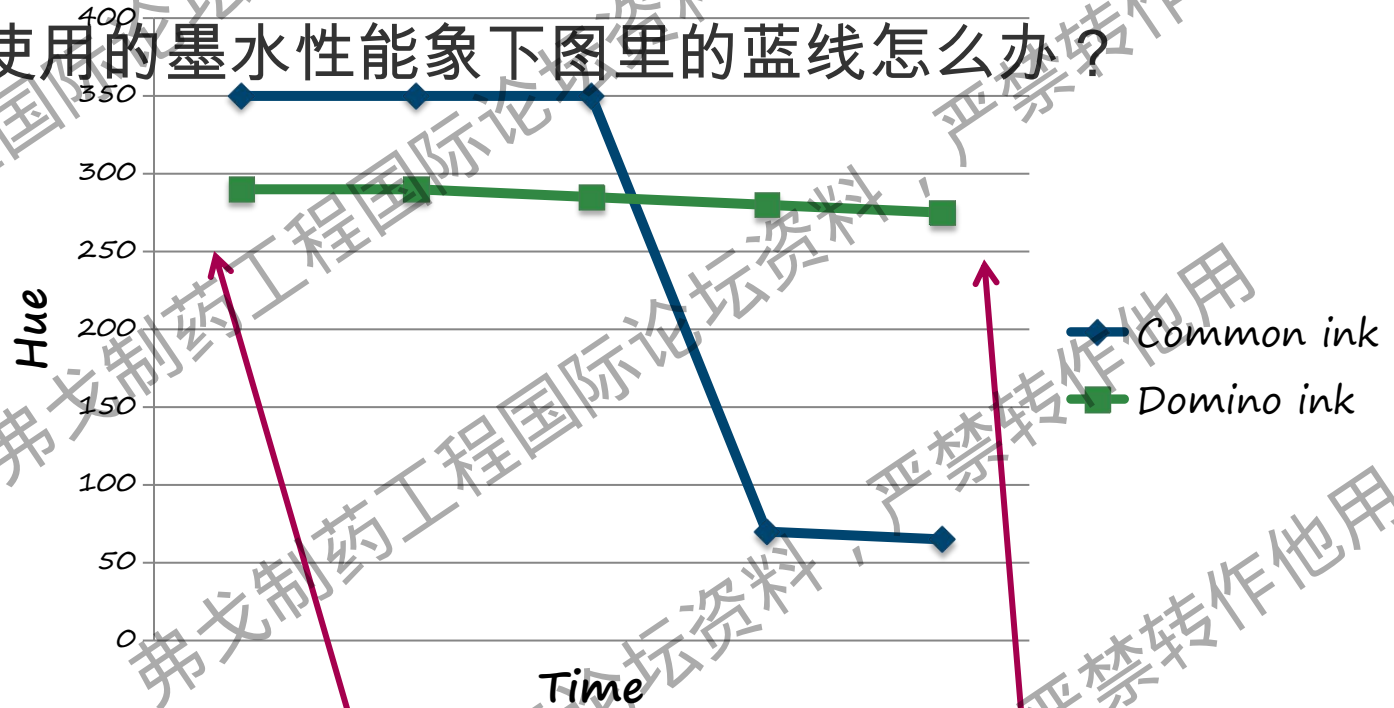
✓ Proven reliable high speed serialisation capabilities

Fading Of The Ink 墨水褪色



What if company uses an ink that behaves like the blue line?

如果药企使用的墨水性能象下图里的蓝线怎么办？



Point of product manufacture
产品被生产出来

Product dispensed to patient
产品分销到患者处

Optimising Inks For 2D Coding 专用二维码打印的优化墨水



- Unique market leading ink, offering contrast and de-cap performance for reliable grade A coding. 领先市场的独特的墨水，对比度高，脱盖时间能适合稳定的A级打印
- Independently assessed lightfastness proving minimal code degradation over lifetime of product 独立第三方验证的抗光能力让标识在产品生命期内的只有极微小的褪色



Market standard ink 市场标准的墨水



Domino ink developed for 2D coding 多米诺专门研发的二维码墨水



Consultancy Report

Lightfast Testing

2D Datamatrix codes

Prepared for Domino UK Limited

By Maggie Carnegie
Principal Consultant
Technical Investigations Group

03 May 2013

Ref: 13-121072

Commercial in confidence

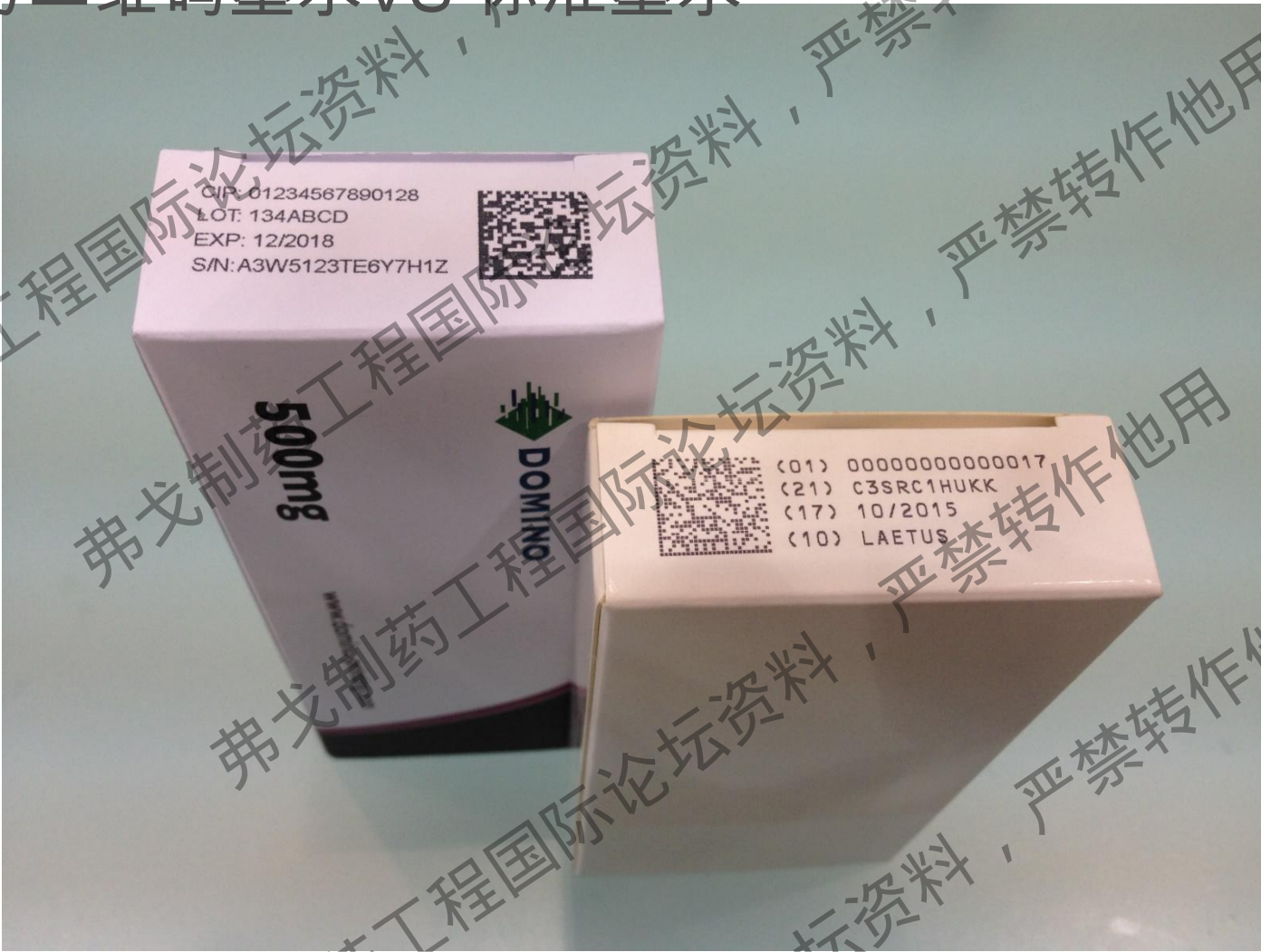
Smithers Pira
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Registration number: 2791524 England

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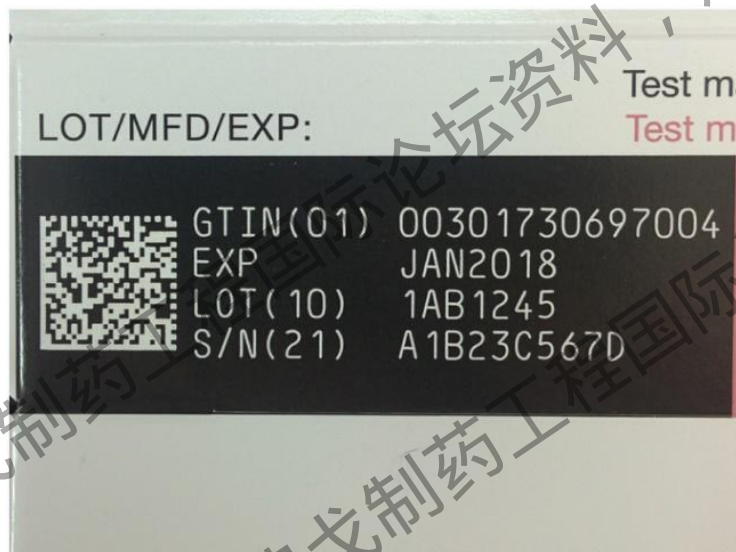


Special 2D Code Ink Versus Standard Ink

特殊的二维码墨水VS 标准墨水



Serialisation coding- LASER 激光灼烧赋码技术-盒、标签



- Important cost savings 成本节约
- Possibility to chose TIJ-friendly materials (typically low kaolin content)
同样适合TIJ打码 (以低高岭土含量为典型)

Professional PHARMA Packaging Consult

专业的医药包装材质咨询



Rank	Board name	Manufacturer	Pharma laser results
1	Chromolux	Zander	61,8
2	Crescendo	Comart	61,6
3	Incada Silk	Iggesund	59,9
4	Simcote	Metsä	59,3
5	Invercote G	Iggesund	58,8
6	Korsnäs White	Korsnäs	58,4
7	Algro 2s Card	Sappi	57,1
8	Carolina	?	56,4
9	Algro Design	Sappi	55,7
10	Invercote GW	Iggesund	52,9
11	Carta Elegia plus	Metsä	52,2
12	Performa Cream	Stora Enso	51,5
13	Incada Excel	Iggesund	50,3
14	Ensocoat	Stora Enso	50,1
15	Performa White	Stora Enso	48,5
16	Performa Alto	Stora Enso	48,4
17	Tambrite	Stora Enso	48,1
18	Arktika	International Paper	47,3
19	Alaska plus	International Paper	47,3
20	Silvaboard	MM Cartons	47,3
21	Avanta Prima	Metsä	45,3
22	Rochcoat	Cascades	42,9
23	Panka Brite	Pankaboard	36,0
24	Symbol Card	Fedrigoni	8,1

DOMINO
excellent 卓越

DOMINO
good 优秀

DOMINO
medium 一般

DOMINO
poor 不好

Pharma Laser Benefits

医药专用激光机优势



DOMINO

标准激光机 Standard Laser

每分钟225包 225 packs per minute

(01) 12345678901231
(10) 1234ABCD
(11) 24.05.14
(17) 24.05.16
(21) 12345ABCDE67890HJKLM



医药专用激光机 Pharma laser

每分钟291包 291 packs per minute

(01) 12345678901231
(10) 1234ABCD
(11) 24.05.14
(17) 24.05.16
(21) 12345ABCDE67890HJKLM



医药专用激光机优势 Pharma laser benefits:

- 速度更快 Faster
- 标识更锐利 A sharper code
- 等级更高 Better grading

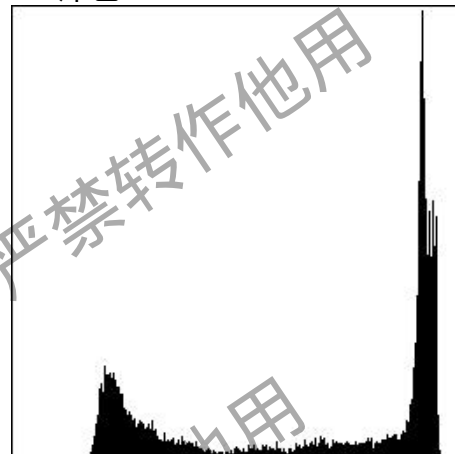


Brighter Code On Most Cartons 纸盒赋码更清晰

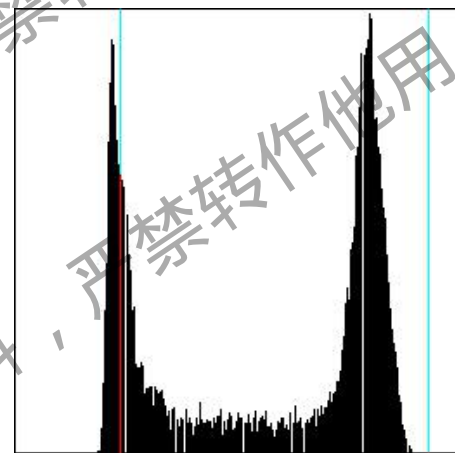


Dark 深色

Light 浅色



Pharma Laser 医药专用激光机



Standard Laser 标准激光机

Serialisation Coding -PALM PALM印贴一体技术-中包、外箱



GMP Validation Service

GMP认证服务



- Available for all coders used in Life Sciences;
适用于生命科学领域解决方案的全系列产品

- Every package is based on a set of generic templates

包含一整套通用的模板组合

- Every package is then edited to meet the agreed URS

开放再编辑权限，以便满足具体的用户需求

- Creation of these packages is undertaken by a dedicated person at the Technical Publications Department at Bar Hill, Cambridge for all Domino badged products

多米诺英国总部技术发布部门专家为多米诺全线产品特别开发

- English only (FDA inspectors are always English speaking)

目前仅英文版本(FDA检查员多为英语会话)

Choosing The Right Coding Method On The Right Substrate



确认赋码材质，选择合适的赋码技术

- ✓ ensures better code quality and long lasting readability
确保更佳赋码可读率和更持久的可读性
- ✓ reduces reject rates due to this higher code quality and can improve your OEE up to 25% (higher speeds, less rejects)
降低产品报废率，OEE提升25%
- ✓ will help to reduce costs on packaging material
节省包装材料支出
- ✓ will guarantee full track and trace throughout the entire life of the product
产品全生命周期追踪追溯

Domino As a Reference In Europe 多米诺是欧盟FMD法规设计的参与者



European Commission

DG SANTE

DIRECTORATE-GENERAL | SANTE

Health and Food Safety



An initiative to protect the European pharmaceutical supply chain from the entry of falsified medicines.

Domino As a Partner In Europe

多米诺是欧盟FMD实施的主要合作伙伴



DOMINO



- Domino is one of the founding members of the coalition against illicit trade

多米诺是反非法贸易联盟的创始成员之一



- Domino is a partner of GS1
- 多米诺是GS1组织的合作伙伴



- Working closely together with the main OEM companies in pharma

与制药行业主要OEM商的标识提供商

Domino Successful European Collaborations



多米诺在欧美市场情况

✓ Over 1000 lines in Europe and Over 1400 lines are trusting us with their 2D serial codes on pharma packs and printing
医药包装的序列化二维码赋码产线，欧州超过1000条产线使用，美国超过1400条生产线使用

✓ Here are some top pharma companies using Domino 2D code printing technologies

以下欧洲制药企业都在使用多米诺二维码打码技术



Domino In APAC Market

多米诺在中国及亚太的市场情况



- ✓ Successful collaboration with Big governmental institutions in different APAC countries , Such as Korea ,Japan...

多米诺参与了很多亚太国家的标识合规的咨询,列如韩国及日本...

- ✓ Over 1000 companies using Domino printer in China :

超过1000家在中国的药企正在使用多米诺技术 :

Novartis、Roche、Pfizer、Merck、Sanofi、Bristol-MyersSquibb、EliLilly、Abbott、GSK、天士力、同仁堂、国药、哈药、石药、华药、广药、上药、云南白药、扬子江药业、西安杨森、阿斯利康、步长集团.....

Domino Global Life Science
- Reliable Sector Partner



多米诺是医药行业最可靠的标识领域合作伙伴

- ✓ First provider of legislative compliant solutions in pharma sector with over 40 years experience

多米诺对全球医药行业标识合规和安全拥有40年的经验

One stop coding solution combining all key bodies in the industry: Legislators, regulators, OEMs and pharma companies

多米诺给予全球各国医药行业的主要机构，立法机构，OEM商提供一站式标识领域专业性建议

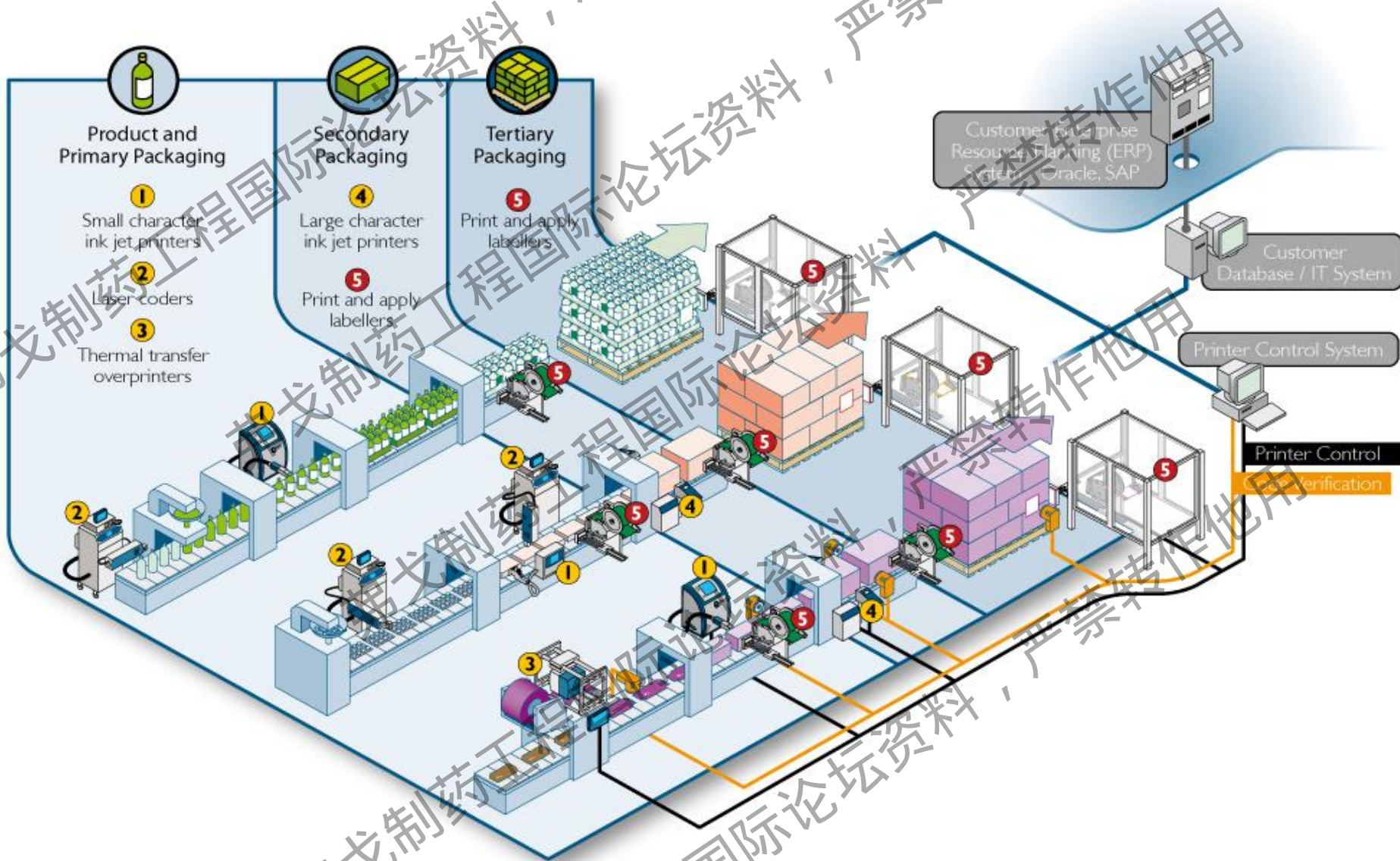
- ✓ Dedicated team, specialised in the pharma sector with expertise in marketing, product compliance and validation documentation

专业的团队，可以提供商务，市场，产品合规，认证文件。

多米诺逾40年 全球生命科学行业标识合规经验



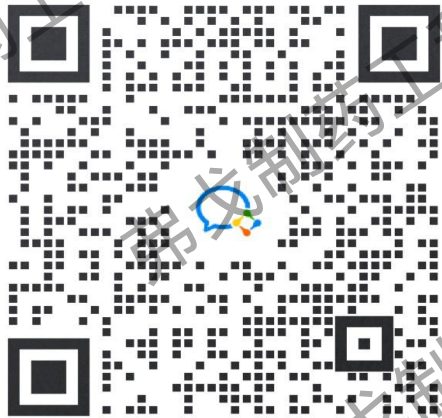
多米诺专注于标识领域 全套的医药行业赋码技术方案





多米诺行业交流群

使用微信或企业微信扫码加入



该二维码9月23日前有效



Domino. Do more.

Thank you