

美国方群公司 QUAD GROUP(USA)

Company Introduction 公司介绍

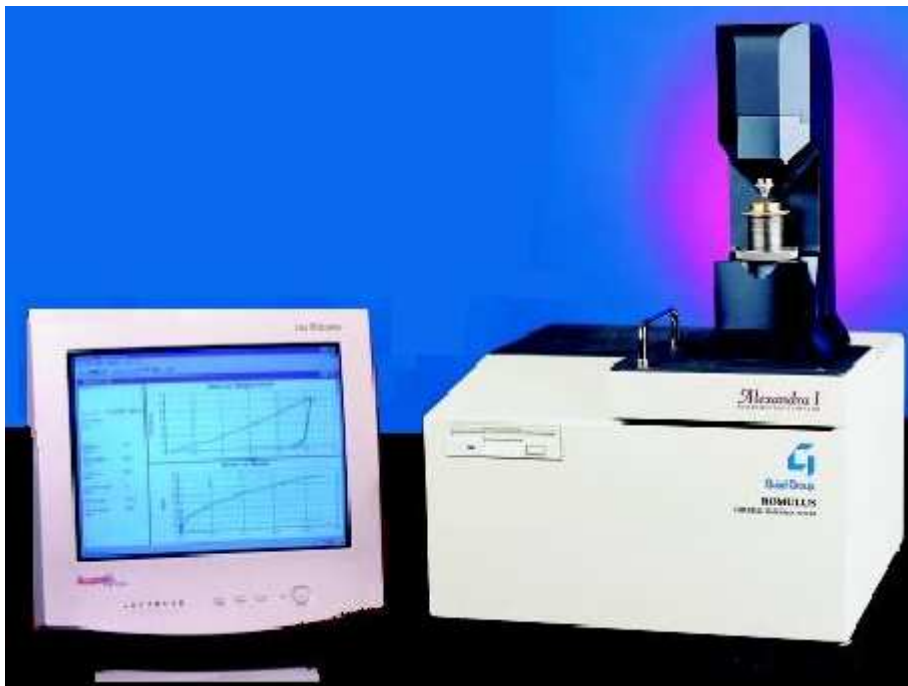
Since 1973, QUAD GROUP has pioneered numerous specialized test instruments for integrated circuit front-end and back-end applications and in all forms of electronic instrument technology including advanced Multi-Chip-Module applications.

自 1973 年, 在集成电路前端和后端应用领域和包括多芯片模块的所有形式的电子仪器技术应用领域, 美国方群(QUAD GROUP)公司成为众多专业测量仪器的先锋.

Quad Group develops, designs and manufactures coating adherence and adhesion testers for the microelectronic and industrial market; applicable in R&D and industrial settings. Our extensive product line with its modularity capabilities provides the customer with an extremely versatile, high quality, compact instrument which is 1.2 sq. feet in size.

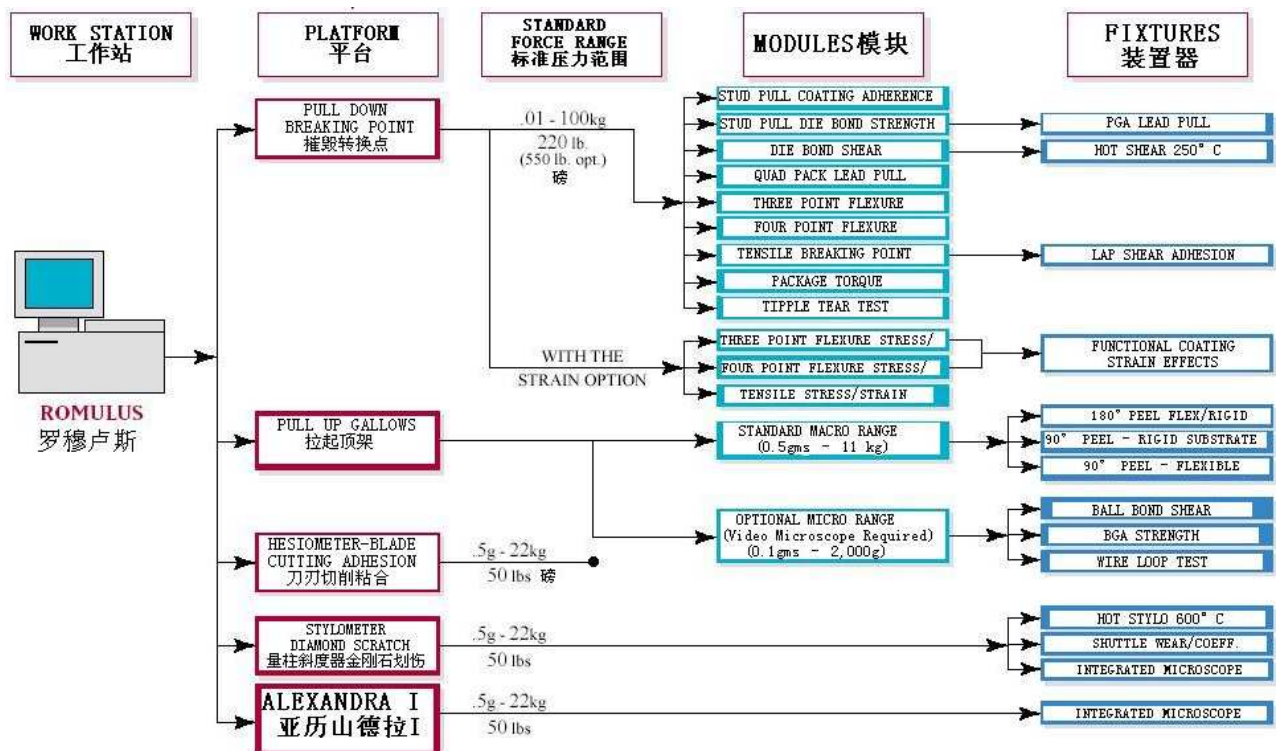
美国方群(QUAD GROUP)公司开发, 设计和制造用于微电子和工业市场的涂层贴附力测量仪; 可应用在研发和工业装置中. 美国方群(QUAD GROUP)公司广泛的产品线以其模块性为客户提供多功能的, 高品质, 紧凑的仪器(1.2 平方英尺).

We pride ourselves in our creative ingenuity of design, ease of operation, excellent customer service, quality of product and our talented staff.



Our newly introduced ROMULUS Universal Mechanical Strength Tester is a computer operated test instrument for evaluating: all forms of adhesion, microelectronic Wafer Fab, Interconnect Technology, Materials Characterization, and many forms of coating and manufacturing Q.C. Tests. The ROMULUS employs a work station which accommodates five optional interchangeable platforms (fraction of a gram to 3/4ton force ranges) and new test modules whose purpose is to connect their loads to a sample in various ways to new testers. Their five interchangeable platforms allow the user to configure over 50 different tests with one machine. Once any instrument is purchased, other platforms, modules and fixtures may be added individually as one's testing needs change. All calibration is traceable to NIST (U.S. National Bureau of Standards).

最近 ROMULUS[罗穆卢斯(战神 Mars 之子)] 多功能机械强度测量仪用计算机操作,可评测: 所有形式的粘着力, 微电子晶片, 连接技术, 材料特性, 许多形态的涂层和制造业的品质保证测试. ROMULUS 罗穆卢斯多功能机械强度测量仪仅用一工作站就可适应五个可选的互换平台(压力范围从 1 克到 3/4 吨),同时新的测试模块以不同方式将负载连接到新的检测器上. 五个互换平台允许使用者在一台仪器上配置 50 多个不同的测试. 一旦任何一种购买仪器, 其他的平台, 模块和装置器均可随测试要求改变单独添加. 全部校准由 NIST 追溯(美国国家标准局)



Romulus Tests 罗穆卢斯-可测试项目:

Pull Down Breaking Point 摧毁转换点

1. 180° (Rigid Or Flex) Substrate-180° (刚硬的或 挠曲) 衬底测试
2. 90° German Wheel Coating Peel-90° German Wheel 涂层剥落测试
3. Bolt Failure Strength 断线失效强度测试
4. Bond Delamination 粘结分层测试
5. Bonded Tape Peel Strength 粘结带剥落测试
6. Co-Fire Lead Strength 合热引线强度测试
7. Component Lead Bond Strength 元件引线强度测试
8. Conductor Trace Adherence 导线痕粘着测试
9. Diamond Scratch Resistance 金刚石抗划伤性测试
10. Die Bond Shear 焊接模剪切测试
11. DIP Lead Strength 双列直插式组装引线强度测试
12. Four Point Flexure Bond Strength 四点挠曲粘合强度测试
13. Four Point Flexure Stress/Strain 四点挠曲压力/应变测试
14. Functional Coating Strain Effects 官能涂层应变测试
15. Hot Shear To 600°C 热
16. Lap Shear Adhesion Test 剪切测试
17. PGA Lead Pull Strength-PGA 引线拉拔强度测试
18. Pin-Grid Array Tensile Strength 针栅格阵列抗张强度测试
19. Pressed Insert Holding Power 加压内抓力测试
20. Pull Nut Insertion Strength 拔螺帽内强度测试
21. Pulling Electronic Conductor Lugs 拔电子导线接线片测试
22. Pulling Threaded Mounting Studs 拔螺纹安装柱螺柱测试
23. Quad Pack Lead Pull 拔四线封装引线测试
24. Solder Bond Strength 焊接结合强度测试
25. Solderability 可焊性测试
26. Strength Of Bonding Agents 粘合强度测试
27. Stud Pull Coating Adherence 柱螺栓牵引涂层粘着测试
28. Stud Pull Die Bond Strength 柱螺栓牵引焊接模测试
29. Tensile Breaking Point 抗拉转换点测试
30. Tensile Stress/Strain 张应力/应变测试
31. Thin Film Coating Strain 薄膜涂层应变测试
32. Thin Film Spallation 薄膜散裂测试
33. Three Point Flexure Strength 三点挠曲强度测试
34. Three Point Flexure Stress/Strain 三点挠曲强度/应变测试
35. Tipple Tear 撕扯测试
36. Torque Strength 扭矩强度测试
37. Welded Attachment Lug Bond Strength 焊接附件凸粘结强度测试

Pull Up Gallows 拉起顶架

- 38. 180° Flex/Rigid Substrate Peel-180°弯曲/刚性衬底剥落测试
- 39. 90° Flexible Substrate Peel-90°柔韧性衬底剥落测试
- 40. 90° Rigid Substrate Peel-90°刚性衬底剥落测试
- 41. Ball Bond Shear 球形粘合剪切测试
- 42. Ball Grid Array Micro Pull Strength 球形栅格阵列微拉力测试
- 43. Gull Wing Peel 全翼剥落测试
- 44. Hybrid Bond Pad Peel 混合粘结垫块剥落测试
- 45. Macro J-Bond Pull 粘结拉力测试
- 46. Macro L-Bond Pull 粘结拉力测试
- 47. Micro Range - Ball Bond Shear (Guided Tool \Video Microscope) 大范围球形粘合剪切测试
- 48. Micro Range - Ball Bond Wire Pull Strength 大范围球形粘合线拉力强度测试
- 49. Micro Range - M.C.M TAB Bond Peel and Breaking Point 大范围焊片粘结剥落\转换点测试
- 50. Micro Range - PCB Conductor Trace Peel 大范围印刷电路板导线痕量剥落测试
- 51. Micro Range - Wire Bond Pull Strength (Suspended Cable Clamp) 大范围线粘结拉力测试
- 52. Micro Range - Wire Loop Pull 大范围线环拉力测试
- 53. Optional Micro Range (0.1g – 2000g) 可选大范围
- 54. Standard Micro Range (0.5g – 11000g) 标准大范围
- 55. Tape/Label Adherence (Peel) 带/标签粘着测试
- 56. Wire Loop Bond Strength 线环粘结强度测试

Hesiometer

- 57. Adherence of Paper/Metal Tapes 纸/金属带粘着测试
- 58. Blade Cutting Adhesion 刀刃切削粘合测试
- 59. Bonded Component Lead Pull Strength 胶粘组件引线拉力测试
- 60. Bonding Media Strength 胶粘介质强度测试
- 61. Flexible Substrate Coating Adherence 柔韧性衬底涂层粘着测试
- 62. Intrinsic Adhesion Energy 固有粘合能量测试
- 63. Multi-Layered Composite Adherence 多层合成粘着测试
- 64. Paint And Coating Adhesion 涂料和涂层粘着测试
- 65. Polymer Adherence/Coherence 聚合物粘着和一致测试
- 66. Thin Film Adherence 薄膜粘着测试

Stylometer 量柱斜度器

- 67. 600°C Tribological Properties-600°C 摩擦特性系数
- 68. Diamond Scratch Wear Testing 金刚石划伤磨损测试
- 69. Hot Stylus 600°C 热铁笔 600°C 测试
- 70. Integrated Microscope 集成显微镜测试
- 71. Shuttle Shear/Coefficient Of Friction 往复式剪切/摩擦系数测试
- 72. Tribological Wear Testing On Tools (700°C Stylus) 摩擦磨损测试

Alexandra I 亚历山德拉 I

- 73. Instrumented Indentor
- 74. Integrated Microscope 集成显微镜
- 75. Knoop Hardness Option 努普显微压痕硬度试验仪选件
- 76. Vickers Hardness Option 维氏硬度选件

...And Growing

中电网 EMD (半导体设备与材料部) 网址: www.chinaemnet.com

联系人: 刘健博 电话: (021)63067401 传真: (021)63575707 E-mail: liujianbo@ChinaECNet.com
地址: 上海市虹口区四川北路 525 号宇航大厦 2012 室 邮编: 200085