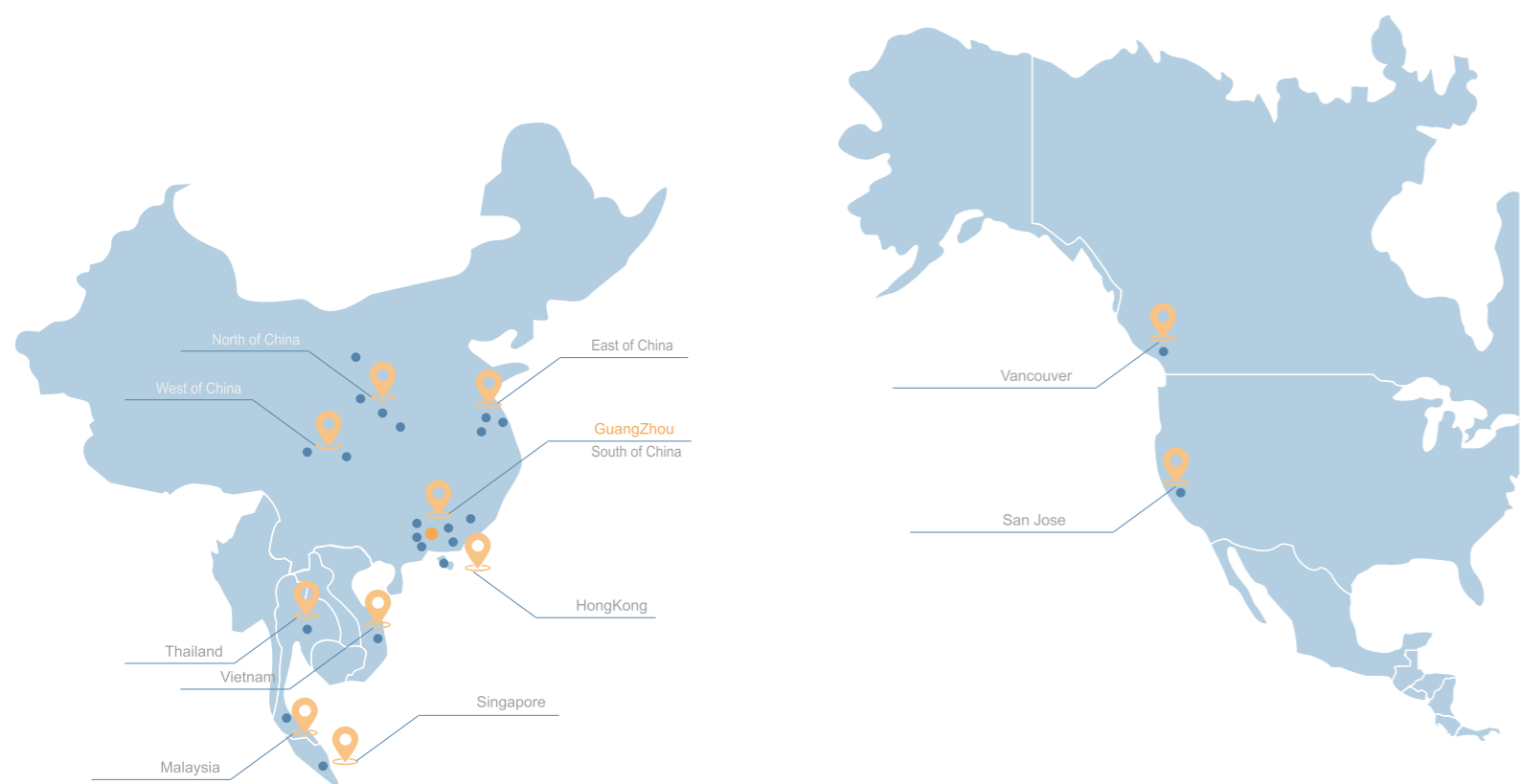




Adhesion solution



PERFECT TOTAL SOLUTION
QUICK PROFESSIONAL SERVICE

ADHESIVE TECHNOLOGY AND EQUIPMENT GUIDE

GuangDong Branches

GuangZhou, ShenZhen, HuiZhou, DongGuan, FoShan,
ZhongShan, ZhuHai, HongKong.

China National Branches

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ROCKTIN TECHNOLOGY CANADA CO. LTD.

COMPANY BACKGROUND



Guangzhou Huangpu Rocktin Industrial Company Ltd. has experience in adhesive technologies and applications since 1990.

We have over 1000 square meters of professional laboratory space for our highly skilled R&D teams. This allows for quick total solution generation, which includes product design, adhesive selection, testing, and automation.

We are not only one of the world-leading Low Pressure Molding machine suppliers, but also a top distributor of adhesives and related application machines.

PROFESSIONAL LABORATORY AND APPLICATION CENTER

EXPERIENCED RESEARCH TEAM

OVER 1000 SQUARE METERS OF LABORATORY SPACE



LOW PRESSURE MOLDING MACHINE AND TECHNOLOGY



Rocktin, Henkel and Nordson have developed the global leading Low Pressure Molding machine, which is able to meet various requests from different customers. Meanwhile, it is fully capable to solve the adhesive carbonization, color change and other problems. The Low Pressure Molding machine adopts Nordson adhesive supply system to ensure the stable operation. The technology and experience of Low Pressure Molding machine and mold manufacture has been the leader in global.



CHARRING-FREE, MAINTENANCE-FREE

EASE OF PRODUCTION LINE INTEGRATION



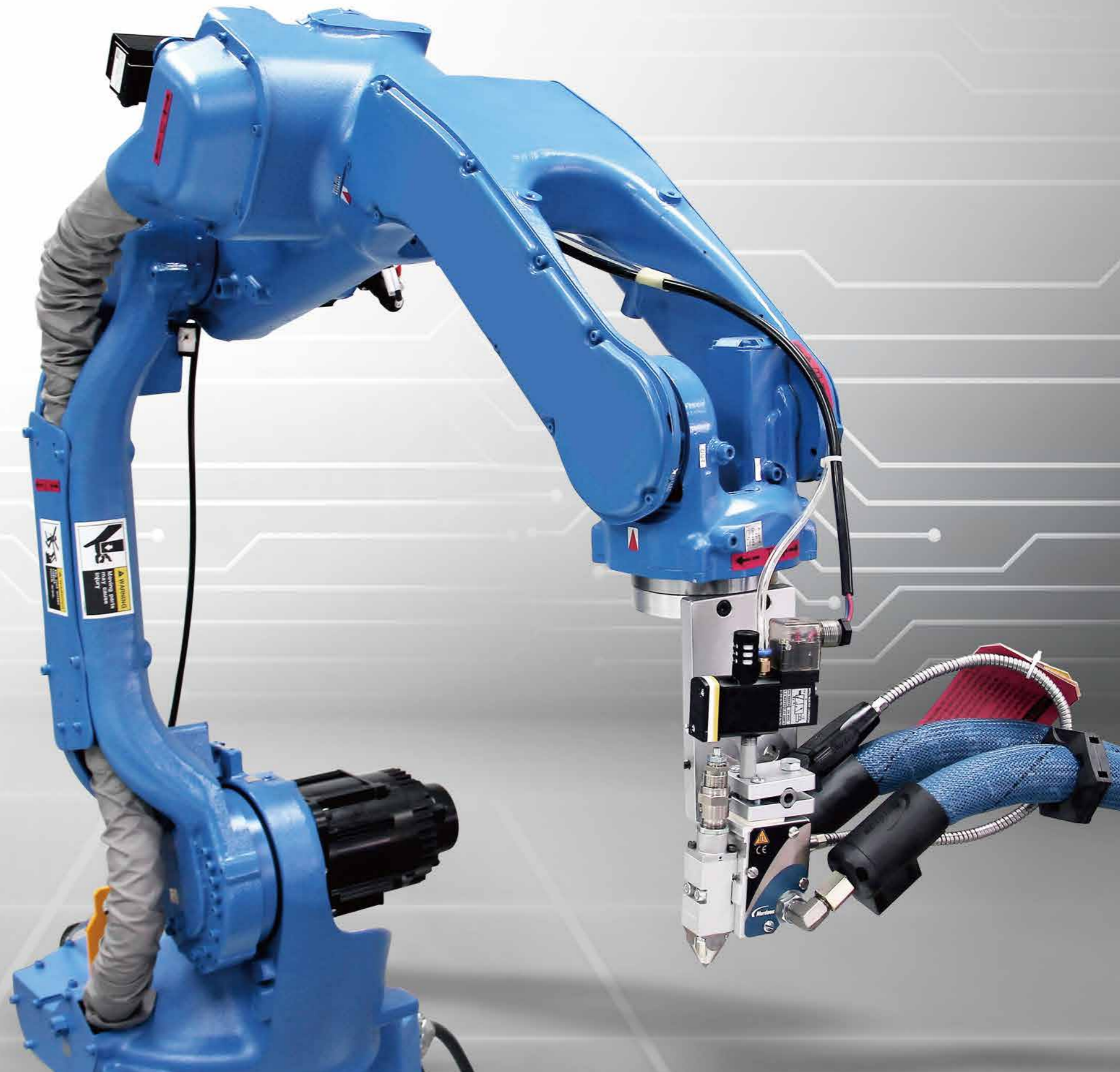
PUR HOTMELT ADHESIVE SYSTEM



Due to the rising demand of narrower bezels on the smartphone, PUR (Reactive Polyurethane) is one of the best type of adhesive for this application. PUR is widely used in consumer electronics industry because of its great adhesion property as well as fast initial bonding strength. It is exceptional at bonding metal, glass, plastic, and other soft substrates.

FIELDS OF APPLICATION

Used in securing earphone and charging cable components, bonding smartphone screens, air conditioning units parts, TV panels, and other large applications.



SINGLE COMPONENT PRECISION DISPENSING SYSTEM



The PICO Pulse delivers faster, more precise jetting over any surface, including uneven and hard-to-reach surfaces. It dispenses with less turbulence for greater fluid deposit consistency, placement, and process control.

Engineered for the most demanding production environments, PICO Pulse is considered one of the most robust jet dispensing valves in the marketplace. When used with the PICO Touch controller it is possible to achieve better stroke control, improved close time, and faster full stroke open time for exacting micro-deposit control.

This dispensing system can be configured for adhesives with varying properties, and precision volumetric technology ensures greatest yield while maintaining consistent production quality. Rocktin's total solution can integrate the dispensing system, dispensing design, and even image recognition technology all together.

FIELDS OF APPLICATION

Single component precision dispensing solution can be applied in automotive, alternative energy, electronics, and general manufacturing industries.

DISPENSES AT 1000HZ CONTINUOUS, WITH UP TO 1500HZ MAX BURSTS

MICRO-DEPOSITS AS SMALL AS 0.5 NL

VARIABLE STROKE FOR PRECISE DISPENSING CONTROL



CONFORMAL COATING AUTOMATION SOLUTION



Advanced conformal coating material protects the printed circuit boards from thermal shock, moisture, corrosion, and other harms from adverse conditions. This coating increases physical robustness against the harsh environment and prolong the lifespan.

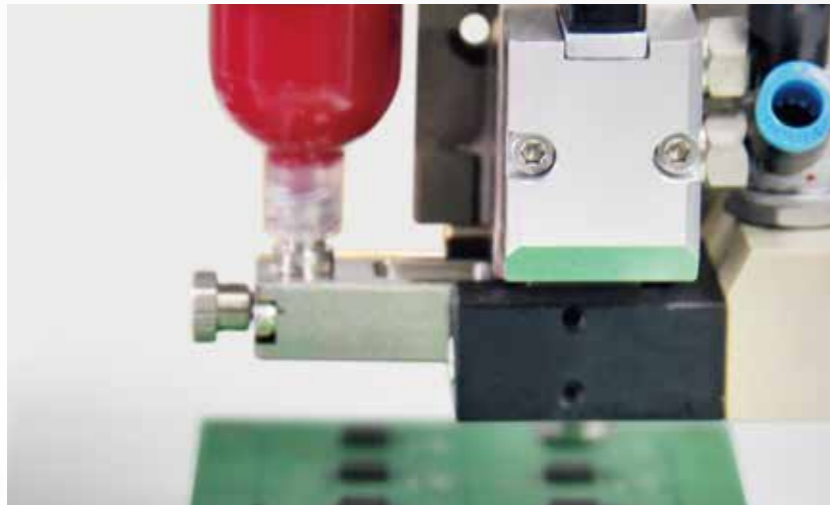
Due to fast curing capability and 100% non-solvent formula properties of the adhesives, our conformal coating is not only production efficient, but also environmental friendly

Fields of application

Commonly used in marine, automotive, medical, and consumer electronics.



UNDERFILL ADHESIVE SOLUTION



Low viscosity, single-component potting material is capable of providing a uniform underfill to PCBs while eliminating air entrapments. This reduces stress on the soldering joints and increases the mechanical stability and robustness of parts. Our solution provides minuscule gap filling capability, fast curing cycles and prolonged lifespan of parts.

Underfill material can also be properly removed to access PCB components in case of rework. This also translates to less waste and cost reduction.



MULTI-COMPONENT LOW PRESSURE DOSING AND MIXING SYSTEM

The DM 402/403 is a 2- or multi-component high-performance low pressure semi- or fully-automatic mixing and dosing system for gasket, gluing and potting applications of different types of parts. The DM 402/403 precisely processes liquid and medium to high viscose media (such as polyurethane, silicones, epoxy resins and other polymer reaction substances).

QUALITY AT HIGHEST LEVEL

- The Sonderhoff DM 402/403 processes the used materials on a constantly high quality level with regards to size and consistency of the product resulting.
- The state of the art sensors and actuators ensure the effective control of any system and process. The automatic logging of all set-up, material and process data enables to track any preceding production sequence.
- The “Sonderhoff-SAFETY” package – based on the principle of preventive maintenance – will help to gain continuously high machine availability.



FIELD OF APPLICATIONS



- 1 AUTOMOTIVE – Fuel tank cap, door carrier, oil pan, brake light, light fixture plate, loudspeaker, head lamp sealing, air outlet channel sealing, number plate light, timing belt cover
- 2 ELECTRONICS – Transformer potting, relay potting, capacitor potting
- 3 PACKAGING – Plastic drum lid, tinplate/steel pail lid, plastic container screw-cap lid
- 4 LIGHTING – Street pole lighting, sign lighting, moisture-proof lighting, LED lighting
- 5 APPLIANCES – Oven glass door, dish washer, vacuum cleaner, ceramic stove top, washing machine, sink, microwave glass door
- 6 FILTERS – Paper filters, HEPA filters, foam molding radial seal filters, industrial filters, car air filters, vacuum cleaner filter cartridges
- 7 ENCLOSURES – Powder-coated enclosure panel, stainless steel enclosure panel, plastic connection box
- 8 PHOTOVOLTAICS – PV inverter housing, PV junction boxes, solar panels

TWO-COMPONENT ADHESIVE PRECISION DISPENSING SYSTEM

High precision, two-component adhesive dispensing system is rather complicated and usually difficult to implement. To get perfect two-component system settings, it requires extensive knowledge on materials, good understanding of adhesive mixing process, and comprehensive application experience. Especially when dealing with high viscosity or high mixing ratio adhesives, there are a lot more to consider when designing the dispensing system to ensure mixing accuracy and consistent dispensing pressure.

Therefore, selecting a professional manufacturer and product is the key for successful two-component application system. We have wide range of machines and accessories selection that fulfills various manufacturer's requirements. Our technical support, operational training and customer service are there to guarantee the success of our customer's two-component adhesive applications.

FIELDS OF APPLICATION

Used for bonding smartphone screens, speaker and sounds systems, and other high-precision bonding applications.



AUTOMATION EQUIPMENT SOLUTION



AUTOMATION EQUIPMENT CUSTOMIZATION

With over 30 years of adhesive application experienced technical team, professional laboratories, and R&D center equipped with a full range of advanced equipment, Rocktin Technology is able to customize our automation equipment for any specific production needs.

- | Lower cost of automation equipment and production design
- | Greater consistent automated production quality
- | Improve production quantity and efficiency
- | Post-sale support
- | Ease of integration into production lines



LED ULTRAVIOLET CURING SYSTEM



We provide environmental-friendly UV curing equipment for curing UV inks, paints, silicone, and adhesives. The incorporation of infrared heating system allows for a wider range of applications. To fulfill the requirement of every individual customer, we make sure that our system is compatible with their production line. We manufacture every single part with highest quality standard and professionally install them onto our customers' production lines.



HP JET FUSION 3D PRINTING SOLUTIONS

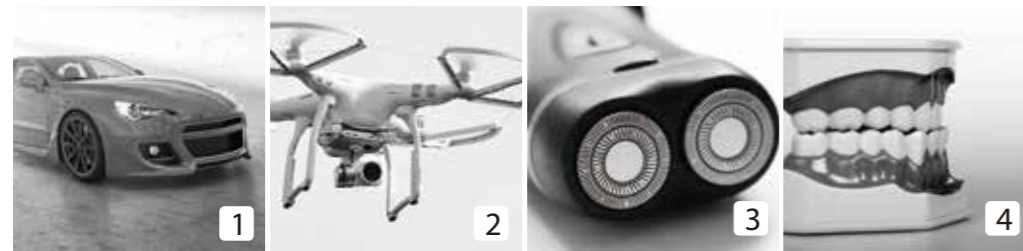
INDUSTRIAL-GRADE QUALITY MANUFACTURING



HP Multi Jet Fusion technology enables the fastest production of functional parts including color parts at a low cost, and with no trade-offs in the process. Deliver quality output, up to 10 times faster at half the cost.

Together with HP, Henkel is already working in HP's open materials community to develop materials for HP's powder fusion based Multi Jet Fusion technology. With the partnership, both companies aim to accelerate the adoption of 3D printing in industrial manufacturing.

FIELDS OF APPLICATION



AUTOMOTIVE

AVIATION

CONSUMER GOODS
& ELECTRONICS

HEALTH CARE



HP Jet Fusion
3D 4200 Printer

3D Processing Station
with Fast Cooling

SUPERIOR, CONSISTENT PART QUALITY

- Gain control with advanced/-custom print modes for mechanical/functional/aesthetic properties, accuracy, speed.
- Get truly functional parts with optimal mechanical properties and monitor part quality during printing.
- Obtain predictable, reliable final printed parts that match your design.
- Access new future materials and uncover new applications thanks to the HP Multi Jet Fusion Open Platform.

BREAKTHROUGH PRODUCTIVITY

- Produce more parts per day with continuous printing, fast cooling.
- Streamline your workflow with HP's automated materials mixing and Processing Station.
- Cleaner experience with enclosed Processing Station and materials not classified as hazardous.
- Rely on HP's world-class HP Jet Fusion 3D Solution Services to maximize uptime and productivity.

LOWER COST PER PART

- Achieve half the cost per part and reduce operational costs, opening your doors to short-run manufacturing.
- Benefit from a competitively priced 3D printing solution.
- Optimize cost and part quality, with cost-efficient materials that offer industry-leading reusability.
- Plan production times more accurately and predictably, to help increase your overall operational efficiency.
- Choose your ideal end-to-end solution from a range of printing and processing options.

THERMAL CONDUCTIVE ADHESIVE DISPENSING SYSTEM

THERMALLY CONDUCTIVE ADHESIVES

The user-friendly adhesive dispensing system can be paired with a standard silicone dispensing needle or attached to a silicone hose for valve-controlled dispensing. Syringe holder is made of anodized aluminum for optimal weight reduction and durability. This system can be paired with a precision dispenser for high accuracy applications.

High structural bond strength in severe environments

Henkel Thermal Adhesives create a mechanical attachment of a component to a heat sink with thermal transfer properties and without the need for additional fasteners. The Liqui-Bond product line also offers mild elastic properties which assist in relieving CTE mismatches. These customizable liquid, tapes, pads or a mix, means reliable, high thermal performance, less waste and just-in-time supply.

CONSUMER APPLICATIONS IN THE FOLLOWING INDUSTRIES:

- Automotive Electronics
- Computer, Storage and Gaming
- Datacomm Infrastructure
- Aerospace
- Handheld & Tablet
- Home Appliances
- Lighting Equipment
- Medical and Instrumentation
- Power and Industrial Automation



HENKEL-LOCTITE ADHESIVE

Loctite has been developing industrial adhesives for more than 50 years. Their range of application includes manufacturing and repair automotive, electronics, and medical equipments. Loctite is a world leading professional, industrial adhesive manufacturer, while supporting customers globally with their highest standard of service. The industrial concept of "design-manufacturing-repair" brings an unique value to industrial and manufacturing customers.

