



**Are you still
applying seals like this...?**

More than you expect.

CeraCon



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The problem

If our cover page looks familiar, your business is using pre-cut gaskets, O-rings, self-adhesive foam beads or manually fitted, moulded seals.

If you're really familiar with these products, then you'll probably be frustrated by the reliability of the process and generally unsatisfied with the questionable sealing performance of these options.

Alternatively, you may have introduced an automated foam sealing system that you are unsatisfied with due to the complexities or unreliability of the equipment and the sealing performance it provides.

The solution

Contract Gasketing with CeraCon offers important benefits:

- » **Reliability and repeatability**
- » **Sealing performance**
- » **No investment in machinery**
- » **No labour costs**
- » **Concentration on core competencies**

...or did you already change!

Contract Gasketing with CeraCon.

The advantages of Contract Gasketing with CeraCon

Closed-Cell Foam Sealant

Our single-component Penguin-Foam® system generates truly closed-cell foam. This means that the foam structure comprises of millions of individual air bubbles. Consequently, even with a damaged foam bead surface, moisture cannot penetrate the encapsulated foam structure. Our FOAMPLY® system can even adjust the quantity of foam bubbles to make our foams harder or softer, according to your needs. With water-tight seals being achieved from approximately 10% compression, our technology allows you greater working tolerances with your component design.

Automated processes by robotic systems

CeraCon's contract gasket facilities utilize fully automated processes, normally using 6-axis robot systems. This 3-dimensional capability applies to all steps of our application. From part handling, pre-treatment, such as plasma, to the bead application itself and subsequent inspection systems. Therefore we guarantee quality through controlled repeatability and reliability.

Development support for prototype design

You may have had to modify your part design to accept conventional seals like O-ring grooves or punched gaskets. Generally, our foam can be applied to existing components with no modifications, but we will be happy to assist with advice for new component development.



Why buy a cow, when you only want a glass of milk?

Contract Gasketing with CeraCon.



Built-in Quality Assurance

From the multitude of automotive projects we have been involved in, we know that process control is indispensable when it comes to Quality Assurance. Our experience is that part sealing is generally overlooked in the design process and subsequently is a source of manufacturing headache in production. Let CeraCon's expertise remove the problems and take responsibility. You make the parts, we seal them and deliver JIT to your customer's production line.

From Prototype to Mass Production

Contact gasketing is applicable for all part quantities. From the use of our systems on a day rate basis, to optimize process and application, to customers with 50 parts per month, to fully integrated mass production cells producing millions of parts per year. Our services offer commercial, technical and strategic advantages. You focus on your core competencies, by allowing us to do what we are good at.

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Qualified personnel equals Quality sealing

CeraCon's core competency is contract gasketing. Within that corporate focus and expertise is a team of highly qualified and experienced personnel. From the system operators, shift supervisors, robot and service engineers to the maintenance and quality personnel: our team work to the strict Quality Standards and focus on the quality you demand. Having a large European and globally expanding customer base, our international levels of expertise combine to provide the best possible solution.

Additional processes or assembly required?

You're interested in our Contract Gasketing service, but need more. Many of our customers request complementary processes which can be incorporated with the core service we offer. Sub-assembly work, clips and fittings, test programs, printing and labeling: we are happy to discuss a package of service that suits your needs.





To summarize the benefits of contract gasketing with CeraCon?

Our foam has a micro fine, closed-cell structure.

- ➔ **Your parts are 100% tight and so your customers 100% satisfied**

All key aspects of the sealing process are automated with robotics.

- ➔ **Completely reliable and repeatable process**

CeraCon can offer experience and expertise in your sealed part development.

- ➔ **Saving you valuable development time and capacity**

We take on Quality Assurance measures for the sealed parts.

- ➔ **You save personnel and logistics costs as we deliver directly to your customer**

Variable quantities – from individual units to mass production.

- ➔ **Stable costs and no investment, even with fluctuating quantities**

A team of experienced and qualified staff focused on sealing.

- ➔ **Consistently high quality sealing**

The possibility to amalgamate other processes.

- ➔ **Your company is more productive by focusing on its core activity**

Summarized customer list Contract Gasketing



Impressions of Contract Gasketing at CeraCon.



Storage racks with door module carriers to be foamed



Automatic foaming of covers in a 7 seconds cycle time



Automatic foaming of threaded bushings in a 3 seconds cycle time



Loading of parts already sealed



Foaming of lamp holders using an automated robot cell



Quality inspection of the foamed parts in our test laboratory





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CeraCon's other Key Business Activities

Development, production and sales of single-component foam dispensing systems

In addition to the equipment we create for our contract gasketing demands, CeraCon also develop, manufacture and sell, single-component foam dispensing systems. Should the customer's requirements mean they wish to benefit from their own in-house foam system, CeraCon will provide a system to meet that need. From small offline systems with low capacity demands, to fully integrated robotic systems with high levels of automation expected to run 24/7. To complement the use of heat curing sealants, CeraCon also manufacture thermal systems. These are high quality vertical and horizontal ovens. Again used in an offline or fully integrated work system.

Preliminary tests with your parts will be done by our laboratory team to find optimal application and performance parameters. They would give you advice on sealing material and application method. This information will be critical in ensuring you arrive at the very best possible application equipment for your needs.

Automated thermal processing systems

CeraCon thermal processing systems are industrial ovens in horizontal or vertical layout. We offer a range of standard machines or can individually tailor the design of the oven to suit your requirements of thermal cycling, part size and part quantity. These electric systems recirculate the hot air to give balanced heating up to 250°C with high levels of accuracy. We can also cool parts in separate chambers within the machine. Part movement can be via conveyor belts, chains or beam movement.

The different applications we satisfy include: the curing of adhesive and sealing compounds, functional hot and cold test requirements, part relaxation after ultra-sonic welding or pre-heating or cooling in conjunction with other customer processes. All systems are inline-capable and therefore optimally suitable for automatic production lines.



