

# Rapid Prototyping of Gaskets

– with Betech Seals' new high-speed cutter, it is now possible to manufacture small batches of high-quality custom-made gaskets – or other parts made of sheet material – at low cost.

## Improving your products and competitiveness

At Betech Seals, our mission is to improve our customers' products and competitiveness. We aim to offer you competent professional support and close collaboration in all stages of the development and manufacturing processes of your products and thus through their entire life cycle. We would therefore like to introduce you to our new high-speed cutter - a machine, that allows rapid prototyping of gaskets, thus opening up a whole new world of possibilities for you.

### 1. The development department: Freedom and flexibility at low cost

In short, our new high-speed cutter enables us to quickly manufacture very small batches of high-quality custom-made gaskets to tight tolerances (Fig. 2). We will transfer your drawings into cutting programs, eliminating the need for tools. This allows your

development department to test different designs, materials and thicknesses swiftly and at low cost.

The high-speed cutter can cut items from Ø1 to Ø1600 mm or up to 2000 × 1600 mm. Furthermore, our technical specialists will assist you in selecting the right material for your application as well as in designing the flanges for the parts to ensure optimal sealability.

N.B. At Betech Seals, we can use GPS tolerancing in technical drawings.

### 2. The production line: High-quality products and security of supply

In our plant, we have a wide variety of machinery for making gaskets. With the new high-speed cutter, this enables us to go from one-piece prototyping to large scale production.

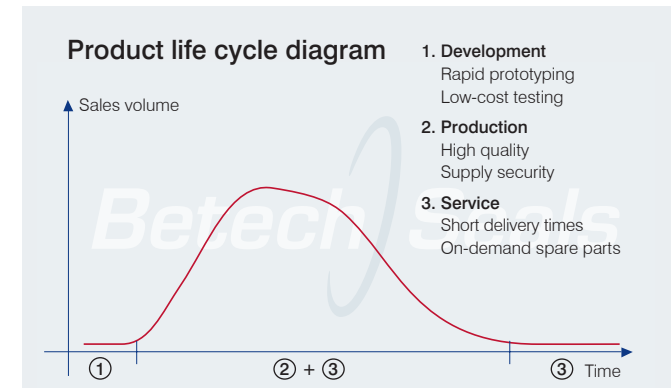


Fig. 1: With our new high-speed cutter, we can help you improve your products.

*We continuously strive to offer you competent professional support and close collaboration through all stages of the manufacturing process and product life cycle.*

### 3. The service department: Short delivery times and little need for stocks

Due to the high flexibility of our new high-speed cutter and our production in general, we can deliver new gaskets to you on demand (Kanban) in small quantities. This means that your service department can reduce stocks significantly.

### A three-in-one partner

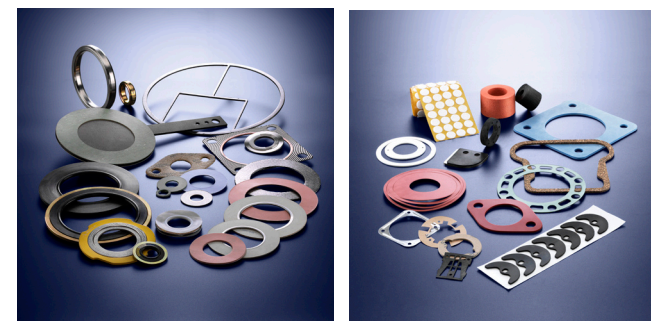
At Betech Seals, we offer you much more than gaskets. We are a full-line supplier of gaskets, seals, mouldings, bellows, vibration dampers and sheet metal parts.

As your specialist in polymeric solutions, we offer technical consulting in each of these product areas.

In conclusion, by choosing us you get:

- An experienced consulting team
- An innovative and solution-oriented sparring partner
- A full-line supplier with an extensive product portfolio

For more information, contact Claus Nielsen:  
tel.: +45 4485 8100 and e-mail: [cn@betechseals.dk](mailto:cn@betechseals.dk), or  
Per Hyldstrup: tel.: +45 7656 2600 and e-mail: [ph@betechseals.dk](mailto:ph@betechseals.dk).



### Flat Gaskets

When it comes to flat gaskets, you can choose from a wide variety of articles, including both our own products and products from the world's leading material manufacturers.

### Materials and finished products

In other words, we can offer you flat gaskets made of materials such as rubber, cellular rubber, graphite, non-asbestos sheet, plastic, felt, rubber cork, etc. Finished products include: punched/water-cut/hand-made - and now also automatically cut - gaskets; braided packings, graphite rings and several types of flange gaskets.

For more information, visit [www.betechseals.com](http://www.betechseals.com) and read some of our case stories.

Tolerances for Ø5 mm part	Automatic high-speed cutting	Water jet cutting	Manual stamping	Semi-automatic stamping	Automatic stamping	Rotary die cutting
Rubber	+/- 0.1 mm	+/- 0.2 mm	+/- 0.4 mm	+/- 0.2 mm	+/- 0.2 mm	+/- 0.2 mm
Cellular materials	+/- 0.1 mm	+/- 0.2 mm	+/- 0.4 mm	+/- 0.2 mm	+/- 0.2 mm	+/- 0.2 mm
Fiber-based materials	+/- 0.1 mm	+/- 0.2 mm	+/- 0.4 mm	+/- 0.2 mm	+/- 0.2 mm	+/- 0.2 mm
Process selection for series production						
Low volume	x	x	x			
Medium volume	#	x	x	x	x	
High volume	#			x	x	x

\* Please note that the examples apply for 3 mm thickness and that tolerances are influenced by choice of material and thickness.  
Tighter tolerances can be achieved but must always be verified by Betech Seals.  
# Suboptimal process with regard to speed but meets demands for close tolerances.

Fig. 2: Examples of tolerances achieved with different cutting and stamping methods.