

## Special Lubricants with System

# Special Lubricants with System

To perform special, to offer special, to be special. With special solutions which cannot be found anywhere else. This is BECHEM's aim – and this is the promise we give to our customers.

As one of the leading developers and manufacturers of special lubricants we offer solutions for high and low temperature applications, plastic lubrication, electrical contact applications, for the food processing industry, sanitary lubricants, anti-friction coatings as well as special noise damping lubricants and for life lubricants in the automotive sector.

We are always in search for new challenges. For new products and solutions which offer our customers maximum benefit. Our advisory skills are not limited to the applied and specific selection of a lubricant, we are also a reliable partner for our customers when choosing the best application technology for the lubricant

Our customers' often very filigree components and applications require technologically ultra-modern dosing systems which offer various technical and simultaneously also economic advantages.

In the field of dosing technology we would like to offer our customers maximum quality and have therefore selected the Walther Systemtechnik GmbH to be our competent partner. Walther Systemtechnik is the leading manufacturer of grease and oil application systems. Many systems are individual solutions for special applications. The extensive product range offers the precise micro dosage of release agents, oils, colours, greases, etc.

Besides the best lubricant we, in close cooperation with our partner Walther Systemtechnik, offer the best application technology for each individual application, either by dosing, pulsing or spraying. In addition to saving of material various sensors guarantee highest process reliability.

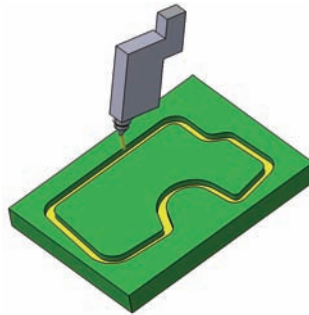
**BECHEM and Walther Systemtechnik ... a strong team, a strong partner! That'Special!**



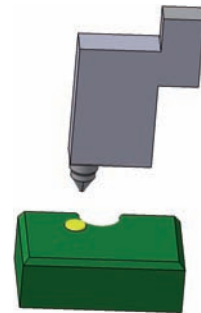
# Examples of application



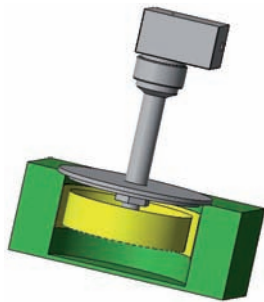
Bead-type application



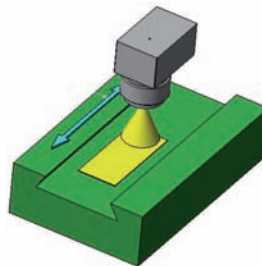
Contour greasing



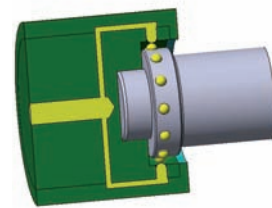
Single dot application



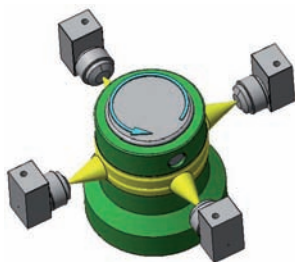
Interior greasing and oiling



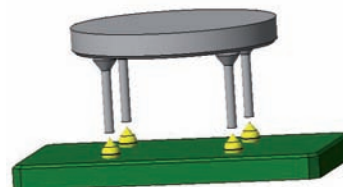
Area greasing



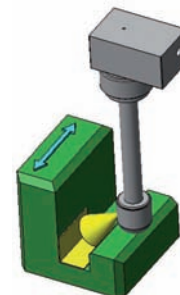
Exterior dot dosing



Exterior greasing and oiling



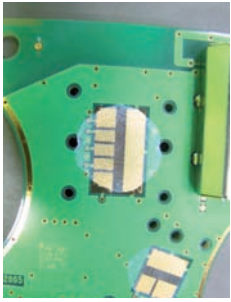
Multiple dot dosing



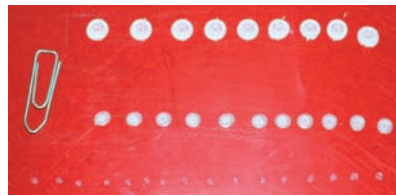
Greasing with angled nozzles

→ also suitable for use with oils and coatings.

# Examples of application



Spraying application



Example: Application of grease  
(from 0.0002g to 0.5g /shot)

## Spot-on solution

Contact-free dosing of the smallest quantities of media, e.g. with a micropoint pulse valve or application of extremely thin layers using a spraying valve.

High precision reproducibility with adjustable dosage monitoring for process reliability.



Small-scale pump

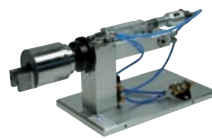


Table top greasing



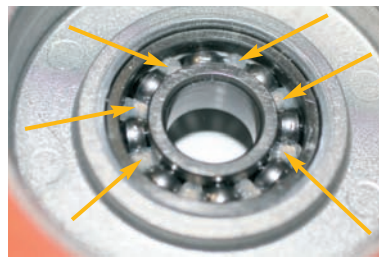
Hand-held pistol

## Hand-held and table top greasing units

- For the semi-automated application of grease for average piece numbers
- Exchangeable tools adapted individually to your components
- Suitable for assembly on a workbench
- With adjustable volume of up to 6.0 cm<sup>3</sup> or for the timed application of larger quantities



Interior spray greasing

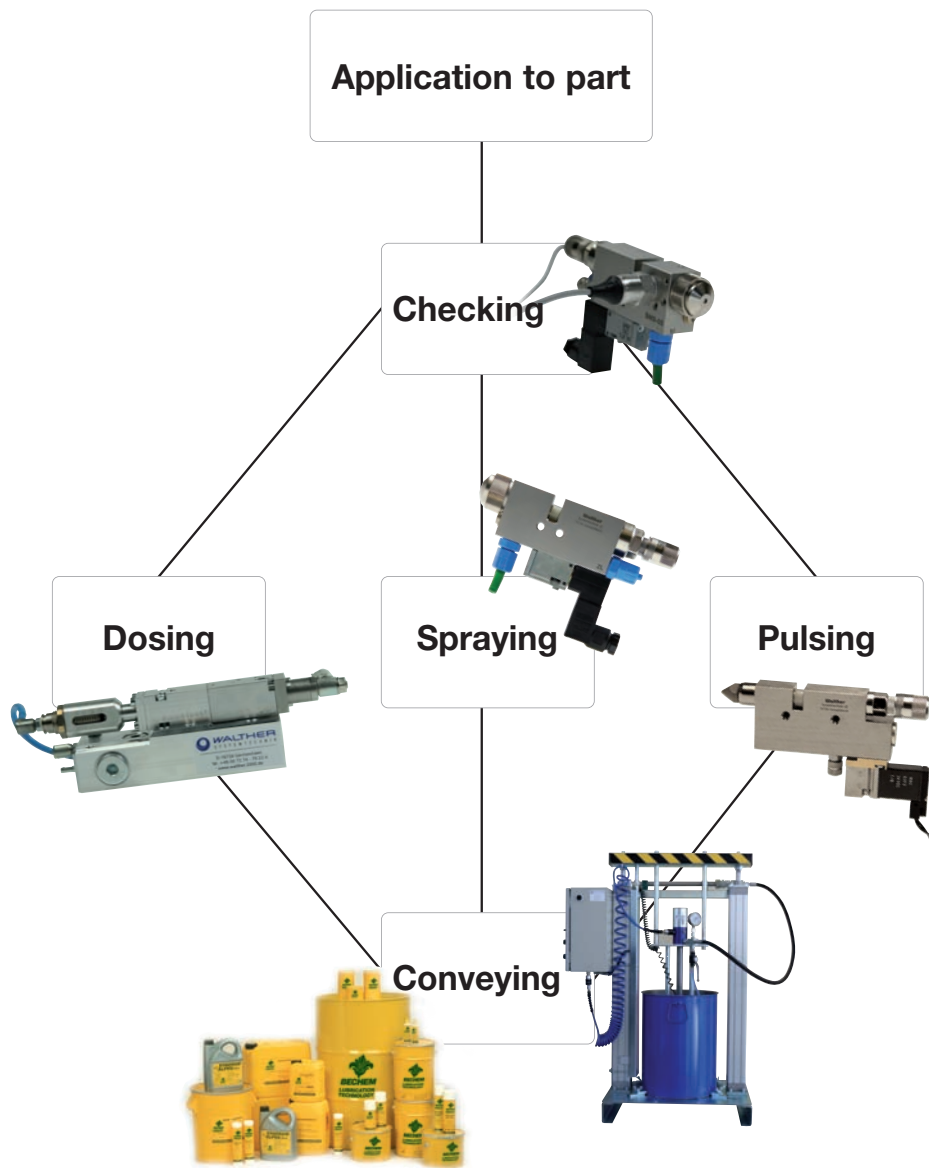


Multiple dot dosing

## Advantages

- High material savings compared to hand-held and contact dosing
- Can apply material in extremely thin layers
- High process reliability
- Compact dimensions
- No dripping
- Clean working environment
- Can be automated
- Low operating pressures

# System design



## That'Special!

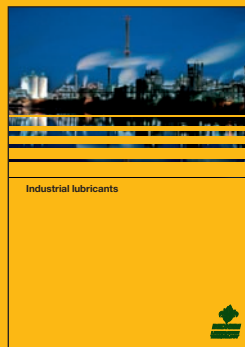
A tradition we are proud of since 1834. This is still today demonstrated by our trademark: the Rhus Flower. After permanent development BECHEM is today a »Global Player«.

BECHEM special lubricants, industrial lubricants, metal working fluids and solutions for forming technology are based on our extensive experience in the development of special chemistry and latest tribologic knowledge. Our know-how with regard to friction, wear and lubrication always considers our customers' requirements for economic and ecologic optimisation of processes. We feel obliged to tradition and progress. That'Special!

Besides the headquarter in Hagen, BECHEM has two more production sites in Germany, i.e. in Mieste and Kierspe. In addition to that, our worldwide distribution network allows us to develop markets all over the world. With the daughter companies in France, India, Switzerland and China, as well as the Joint Ventures in the USA, South Africa, Sweden and Russia BECHEM shows its international presence.

It is our target to supply our customers with high quality products and to simultaneously meet the valid international standards. The quality of our products is confirmed by the certification according to the automotive standard ISO/TS 16949. The requirement to our standard is guaranteed by the systematically effected internal audits and regular inspections by the RWTÜV at all sites, as well as by audits carried out by our customers.

**Further information material can be ordered directly with us or is available under [www.bechem.com](http://www.bechem.com).**



### Special lubricants

- Low and high temperature lubricants
- Plastic lubrication
- Electrical contact lubricants
- Food grade lubricants
- Valve lubricants
- Anti-Friction-Coatings

### Industrial lubricants

- High performance multipurpose greases
- Heavy duty and high temperature lubricants
- Hydraulic oils
- Gear lubricants
- Green lubricants

### Metal working

- Deep drawing/punching oils
- Coolant lubricants
- Cutting and grinding oils
- Deep drilling oils
- Corrosion protection oils
- Cleaning agents

### Forming technology

- Wire drawing lubricants
- Cold forging oils
- Semi hot/hot forging
- Tube drawing lubricants
- Cold massive forming oils



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