

# CAVEX® - Hygienic Design Gearbox



## CAVEX® HD

## The new stainless steel CAVEX® gearbox range

### Deliberately sophisticated

A worm gear is not just a worm gear. CAVEX® has proven this again and again for more than 50 years.

The new gear unit implements all the requirements of a “hygienic design” and combines them with the **CAVEX® product properties** that provide a **high load capacity**, the possibility of **high ratios in space saving surroundings** and **low noise emission**. Worldwide CAVEX® now offers the first worm gearbox which has been exclusively developed for the above mentioned industries.

**An optimal cleaning is ensured through the use of stainless steel and a gearbox casing design that is characterized by ‘rounded’ outer surfaces.** Through its compact design, the integration of the gearbox in applications provides flexibility and space saving.

The applications are multiple: on one hand, the new gears replace conventional gears that, up to now had to be sealed off from critical zones behind complex stainless steel covers, and on the other hand surface coated gears will be replaceable, which in the past has always been a compromise. The new gearbox range consists of 3 different sizes. Sizes 40 and 50 are produced as gear motors with integrated housing. Size 63, which is shown in the picture, is available both with and without motor. Furthermore, customers benefit from a worldwide availability and the comprehensive service network of CAVEX®.

- Developed for the food industry and chemical/pharmaceutical applications
- Full stainless steel housing
- CAVEX® original gearing

# CAVEX®

German Drive Technology



Size		CHD 40	CHD 50	CHD 63
Center Distance	mm	40	50	63
Nominal Output Torque	Nm	60	130	200
Nominal Power Rating	Watt	314	680	1047
Nominal Input Speed $n_1$	min <sup>-1</sup>	1500	1500	1500
Efficiency of gearset $\eta_{GS}^*$	-	≈ 0,96	≈ 0,96	≈ 0,96
Ratio	$n_1 / n_2$	5 - 70	5 - 70	5 - 70

\*Efficiency  $\eta_{GS}$  relates to gearbox efficiency at ratio  $i = 5$

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More information about the company CAVEX® and its complete product line is available at:

**CAVEX-drivetechnology.com**