

UNEX: Extruder-Gearbox series comprising more than 500 designs

Standardisation reduces design and interfacing cost / UNEX universal extruder gearbox for single-screw extruder / Presentation at the International Exhibition for Plastics and Rubber Industries "Chinaplas 2008" / Standard design platform for increased cost effectiveness / Maximum flexibility and versatility / More than 500 designs for 18 sizes / Transmission ratio range from $i = 5$ to $100 : 1$ / Maximum output torque 200.000 Nm / Koellmann Gear: More than 40 years of experience in extruder gearbox manufacture /

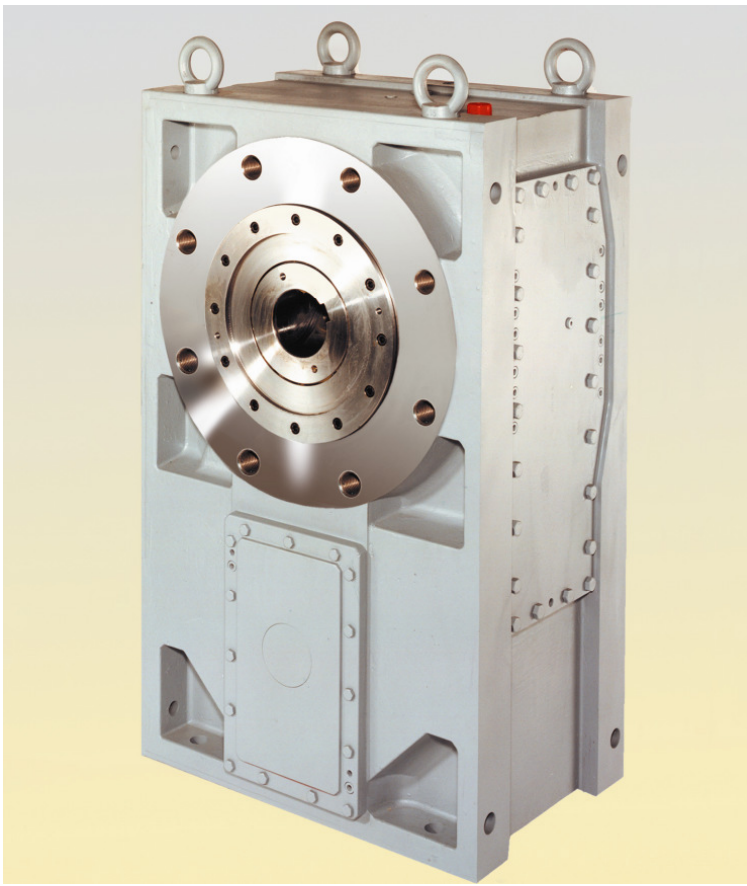
Shanghai - China / Wuppertal - Germany. Extruders are required in a wide range of applications and materials. The plastics and rubber processing industry alone makes a varied and – in the individual case – very specific demand to drive facilities, especially when it comes to torque, dimensions and connections of the extruder gearboxes. Many clients ask for custom-built gearboxes to be tailored to the specifications of the customer with the required flange designs and dimensions. Experience shows that high design and interfacing cost are often liable for increase of prices.

Koellmann Gear developed a system offering quick and cost-efficient solution to problems especially in the field of extrusion. The UNEX universal extruder gearbox presented at the International Exhibition for Plastics and Rubber Industries "Chinaplas 2008" is a helical gear system designed for single-screw extruders and has been tried and tested in a number of industries including the plastics processing industry in particular as it combines a standard design platform with maximum flexibility and versatility to cut cost and spur efficiency. This extruder gearbox is the result of more than 40 years of experience accumulated by the Wuppertal drive technology experts in terms of development and manufacture of extruder gearboxes for a wide range of applications.

A compact one-piece universal casing provides a maximum level of standardisation leading to high efficiency in almost every fitting position. Its design using GG Ferrocast has been FEM optimised. The technical special features include one thrust bearing integrated into the housing and silent performance-optimised gearings. This helps to achieve a very high efficiency at a low noise level.

The current UNEX manufacturing program comprises one to three-stage gearboxes offered in 18 various sizes and more than 500 designs. A maximum output torque of 200,000 Nm is reached at a transmission ratio range between $i = 5$ and $100 : 1$. Both the screw & cylinder connections and the configuration can be customized to the individual requirements. A large number of accessories such as oil cooling & oil pump units and inductive speed sensors make the UNEX gearboxes a perfect offer.

The gearboxes are suitable for many applications ranging from the plastics / rubber processing industries and recycling plants to, among others, food production. Typical applications include cable covering machines and machines for the manufacture of vinyl profiles and tubes or fuel tanks for the automotive industry, but also film blowing machines for the packaging industry.



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