NGC Gearbox for Rubber & Plastic Industry

Geared for a Better Future
About Us

NGC Rubber & Plastic Machinery Gearbox BU specializes in developing, manufacturing, delivering and service of gearboxes with hard-surface teeth for rubber and plastic industry. Our gearboxes are widely used in internal mixers, open mill mixing, single screw extruders, Extruding & Sheetling Machine, rubber calendars and cutters. Innovation and improvement are our daily tasks and have fruited many patents and the leading position in the market. Today, NGC gearboxes are running in many countries of Europe, Asia, and America. NGC has become one of the most competitive international providers of gearboxes for rubber and plastic industry.

Working closely with customers all over the world, we produce high quality products with the state of art manufacturing technology. Our deep know-hows accumulated during decades as well as comprehensive global service network will ensure our customers for the safe operation.
NGC Advantages

NGC gearbox for rubber and plastic industry adopts the most advanced gear and bearing design concept. To achieve reliable sealing, a combination measure of oil sealing and mechanical sealing is taken at both input and output end. Forced spray lubrication system can lubricate the gear teeth thoroughly. For small gearboxes, the lubrication system is just installed on the housing, which provides a compact appearance and also a maintenance friendly feature; for larger gearboxes, an independent oil unit is equipped. We check every gearbox according to the most rigorous quality standards to make sure that only the best products are delivered to our customers.

NGC gearboxes for rubber and plastic industry represent innovative design, advanced manufacturing process, precautionary quality system, and excellent services throughout the whole product life. Characterized by high efficiency, low noise, energy saving and environment friendly, NGC gearboxes are running in rubber, tire and plastic industries world wide.

NGC Products

Gearbox for Single Screw Extruder

Gearbox for single screw extruder is used as power drive system in single or dual extruders for rubber and plastics industry, and also used in other materials extrusion applications. Dual extruder, which is special for producing radial tires for cars and trucks, can extrude compound of crown, shoulder and tread base, compound of sidewall rubber and bead rubber. It can also be used for producing bias tires by extruding the integrated profile of tread and sidewall.

Gearbox for Internal Mixer

The main gearbox for internal mixer, which adopts parallel shaft reduction transmission system, is a kind of high precision, heavy duty gearbox with hard-surface teeth. The input shaft is connected to the motor shaft via coupling. The speed of motor is reduced by gears of input shaft and gears between two output shafts, and then the divided power is transmitted to rotor shaft of mixer via coupling.

Gearbox for Open Mill Mixing

The main gearbox for open mill mixing, which adopts parallel shaft reduction transmission system, is a kind of high precision, heavy duty gearbox with hard-surface teeth. The input shaft is connected to the motor shaft via flexible coupling. The speed of motor is reduced by gears of input shaft and gears between two output shafts, and then the divided power is transmitted to rotor shaft of mixer via coupling.

Gearbox specifications

<table>
<thead>
<tr>
<th>Power range</th>
<th>22 KW – 750 KW</th>
<th>22 KW – 3,000 KW</th>
<th>37 KW – 450 KW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output speed</td>
<td>20 rpm – 80 rpm</td>
<td>20 rpm – 100 rpm</td>
<td>11 rpm – 30 rpm</td>
</tr>
<tr>
<td>Velocity ratio</td>
<td>18.75 – 53.6</td>
<td>12.5 – 60</td>
<td>10 – 103</td>
</tr>
</tbody>
</table>
Gearbox for Extruding & Sheetng Machine

The main gearbox for downside auxiliary machine of internal mixer (bi-zyramid twin screw extruder) is a high precision and heavy duty gearbox with hard-surface teeth. This main gearbox which consists of extruding gearbox and sheeting gearbox has five driving models with left and right way for each.

Gearbox for Rubber Calendar

The calendar gearbox is the key equipment for rubber tire and plastics industry. The input shaft driven by motor transmits the speed to output shaft via multistage parallel helical gears, which ensures high efficiency, low noise and low energy consumption.

<table>
<thead>
<tr>
<th>Gearbox specifications</th>
<th>15 KW – 315 KW</th>
<th>22 KW – 400 KW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power range</td>
<td>11 rpm – 36 rpm</td>
<td>9 rpm – 70 rpm</td>
</tr>
<tr>
<td>Velocity ratio</td>
<td>25 – 80</td>
<td>16 – 73</td>
</tr>
</tbody>
</table>

NGC Services

NGC service team consisting of design engineers, application engineers, field engineers, and authorized service partners. We are ready to serve our customers with the most optimized maintenance strategy, including troubleshooting, routine inspections, repairing, daily maintenance and training. Our service is always there for the whole product life.