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An industrial gearbox is an enclosed system that transmits mechanical energy to an output device. Gearboxes can modify their speed, torque, and other attributes to convert the energy into a useable format. Gearboxes are used in a variety of devices, for a broad range of purposes. These machines can slow the rate of rotation to increase torque and speed. The following will explain some of the different types of industrial gearboxes and how they are commonly used. Helical Industrial Gearbox The helical gearbox is a low-power consumer and is compact in size. This equipment is used for a broad range of industrial applications, but typically in heavy-duty operations. The helical gearbox is popular in the construction of plastics, cement, rubber, and other heavy industrial settings. It is useful in crushers, extruders, coolers, and conveyors, which are all low-power applications. The helical gearbox is unique in that it is fixed at an angle which, when in motion, enables more teeth to interact in the same direction. This provides constant contact for a given period of time. Extruder helical gearboxes are used when torsion stiffness needs to be maximized and for low-noise applications. Extrusion gearboxes are used in the plastics industry and in machines that require high mechanical power. Coaxial Helical Inline The coaxial helical gearbox is ideal for heavy-duty applications. Coaxial helical inlines are noted for their quality and efficiency. These are manufactured with a high degree of specification, which allows you to maximize load and transmission ratios. Bevel Helical Industrial Gearbox The critical feature of this type of gearbox is a curved set of teeth located on the cone-shaped surface close to the rim of the unit. The bevel helical gearbox is used to provide rotary motions between non-parallel shafts. These are typically used in quarries, in the mining industry, and in conveyors. Skew Bevel Helical Gearbox The skew bevel helical gearbox is notable for its rigid and monolithic structure, which makes it usable in heavy loads and other applications. These industrial gearboxes offer mechanical advantages once they are mounted on the correct motor shaft output. These are highly customizable based on the number of teeth and gears. Therefore, you can usually find one suitable for your needs. Worm Reduction Gearboxes Worm reduction gearboxes are used to drive heavy duty operations. Worm gearboxes are used when there is a need for increased speed reduction between non-intersecting crossed axis shafts. This type of industrial gearbox uses a worm wheel that has a large diameter. The worm, or screw, meshes with the teeth on the peripheral area of the gearbox. The rotating motion of the worm causes the wheel to move similarly due to the screw-like movement. Most of these industrial gearboxes are used in heavy industries such as fertilizers, chemicals, and minerals. Planetary Gearbox The planetary gearbox is ideal for its endurance, accuracy, and distinct functionality and is notable for its precision applications. This type of gearbox increase the lifespan of your equipment and optimizes performance. Planetary gearboxes come in either a solid type of hollow format or with a variety of mounting options including a flange, shaft, or foot. Date: October 30, 2017 An industrial gearbox is an enclosed system that transmits mechanical energy to an output device. Gearboxes can modify their speed, torque, and other attributes to convert the energy into a useable format. Gearboxes are used in a variety of devices, for a broad range of purposes. These machines can slow the rate of rotation to increase torque and speed. The following will explain some of the different types of industrial gearboxes and how they are commonly used. 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For more information about industrial gearboxes At Amarillo Gear Service, we work with our clients to ensure their industrial gearboxes remain operational for the duration of their intended lifespan. We ensure that every unit we refurbish and repair leaves our facilities in near-new condition. If we notice potential causes of failure during the repair stage, we notify clients immediately. The result is that many of our industrial gearboxes perform better once they are returned and are less prone to damage or further problems. Amarillo Gear Service is a division of Amarillo Gear Company, which has been in continuous operation since 1917. When you need affordable and high-quality gearbox repair or renewal, contact the experts at Amarillo Gear Service in Amarillo, Texas. You can call us at (806) 622-1273 or Contact Us by email to receive more information about our Amarillo Gear™ and Marley™ gearbox repair services. We will be glad to tell you more about the Regions We Service and the quality workmanship we can bring to the repair or Renewal of your drive. Disclaimer: Some of the links below are affiliate links which provide us a small commission at no cost to you. These links track your purchase and credit it to this website. You can read the full affiliate disclosure in our privacy policy. In every industrial field, different types of industrial gearboxes are essential components of machines used to handle various mechanical and manufacturing functionalities. Many industries like paper, sugar, cement, chemical, and rubber fall back on the power of these industrial gearboxes to complete their processes. These gearboxes don't only allow the manufacturers to achieve success in their production, but they also help lessen the energy costs. It allows for speed subtraction, torque multiplication, inertia matching, and cost-saving. Basically, an industrial gearbox is different from a standard gearbox. An industrial gearbox is a mechanical tool that is used in the larger part of drives that allow for reliable operation and safety. The different designs and specifications of gearboxes make it possible to choose one according to your industry requirements. Gearboxes are capable of carrying out various duties across a prolonged span of time and at very high efficiency. An industrial gearbox is employed in various applications, including construction machinery, machine devices, transporters, and any equipment that requires adjustments in the torque and speed for turning power transmission. In this write-up, we explain in detail – what the different types of industrial gearboxes are and their various advantages. Let's get started. Table of Contents What are Industrial Gearboxes? Types of Gearboxes Worm GearHelical GearsSpur GearsBevel GearPlanetary Gearbox Summary! What are Industrial Gearboxes? A gearbox is an embedded system that brings mechanical energy to an output device, for example, a motor to control speed and torque. It modifies the ratio of speed, torque and rate of rotation to convert energy into a compatible format. Most of the gearbox is made of iron, aluminum, or brass. The overall objective of gearboxes is to speed-up torque. They also assist in lessening the activity of an original mover shaft. It means the output device rotates at a slower speed and this speed reduction increases the torque. This mechanical tool can manage multiple tasks at remarkably great speeds for a prolonged period of time. Types of Gearbox These are the main types of industrial gearboxes that are used in various industries. Let's have a look at the following and their uses. Worm Gear Worm gearboxes are widely used in performing heavy-duty functions. This type of gear has a large diameter screw that positions the teeth in the periphery of the machine. Such arrangements allow the user to define the rotational speed and transmission of higher torque. Worm gears are a reliable option for transferring power at 90 degrees. The worm gearbox is ideally seen in applications like elevators and conveyor belts. The following is true about worm gearboxes. Worm gearboxes are compact devices and have a high load capacity.They offer precise linear bearings and lower noise levels.They provide a high-ratio speed reduction.They have often used a gearing system when space is less and large gear refinements are required. They are the smoothest and quietest gear systems.They can be used to increase torque and lessen speed. Helical Gears Helical gearboxes have a smaller size and use less quantity of power. This type of gear is employed in the production of rubber, cement, and other manufacturing applications. Other than this, the device is also used for low power applications, such as grinders, conveyors, and coolers. The teeth of the helical gears are cut to a fixed angle, which provides the greatest grind power when it turns in the same direction. The design of the device allows smoother running and high load angles. The following advantages of helical gearboxes: Reliable meshing performance, low oscillation, less noise and stable transmission.Helical gears are more powerful and are used in high power and load applications.It can transmit power and motion between parallel or right-angle shafts. Spur Gears Spur gears are known for their cylindrical pitch surface. If the teeth fit parallel to the shaft, they mesh correctly and have no thrust load. Spur gears are reliable and are used to convey movement and power from one shaft to another. This transference can improve machinery's running speed, increase torque, and provide perfect solution and control over placing systems. It is typically used in various industrial applications including speed reducers, conveyor systems, gear pumps, motors, transmissions, and mechanical transportation systems. Spur gears provide several advantages for industrial applications, including: They are ideal for limited spaces.These gears are fit for driving systems as they are equipped to transmit more power transmission with efficiency.They provide a wide spectrum of transmission proportion, tremendous performance and secure processing.They don't have any slippage. Spur gears are a very commonly used type of gear in gearboxes. Bevel Gear Bevel gears are known as the power transmission mechanical component, primarily used to adjust the direction of shaft rotation. It also reduces speed and raises torque in non-parallel rotating shafts. These devices carry curved teeth positioned on cone-shaped surfaces adjacent to the rim of the unit. This type of gear accommodates rotary motions between irregular shafts. They are generally used in various industries, like mining, aeronautics, pharmaceuticals or textiles. The widespread advantages of bevel gears are: They require little spaceThey can transmit a great amount of power and provide high productionThey occupy very necessary maintenanceThey reduce any risk of slippage Planetary Gearbox The planetary gearbox is gaining momentum in groundbreaking technologies like 3D printing and robotics. This type of gearbox has a central sun gear, which is surrounded by 3 or 4 planet gears. Through an outer ring gear, these are all held together with internal teeth. It conveys the power uniformly through the gears to gain powerful torque in a small area. The planetary gearbox is excellent for its durability, efficiency, and distinguished functionality and is renowned for its accuracy. Additionally, it extends the lifespan of your machine and optimizes production. Let's have a look at the following advantages of Planetary gearbox: It provides high efficiency and low powerProvide extensive transmission ratio benefitsPromising volume productionAmazing option for a broad spectrum of applications Summary! When it comes to choosing a good gear between the different types of industrial gearboxes, gear design and size are two major factors that you should always take into account. Therefore, it's recommended that you inspect the gears before picking one for your mechanical processes. Many manufacturers work to bring more accuracy and efficiency to their inspection process. Therefore, always give preference to a reputable organization for accurate and efficient results. Author Bio: Maye Pang is a leading contributing editor in the field of mechanical engineering, specializing in automation products. She is the business development manager of Shafttech, a mechanical products powerhouse including worm gearbox, linear bearing and many other products based in Asia. Connect with her LinkedIn.

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