



**SHREE GAYATRI  
ENTERPRISE**

[www.shreegayatrienterprise.in](http://www.shreegayatrienterprise.in)



**“WE ARE  
CERTIFIED  
ENGINEERS”**

**INDUSTRIAL SERVICES  
CREATIVE  
& PROFESSIONAL**



The journey of our company started with the establishment of **Shree Gayatri Enterprise** in the year 1995 in Ahmedabad city of Gujarat in India. Shri Dilip Patel is the founder of Shree Gayatri Enterprise having more than 25 years of experience in the gear and precision machined parts manufacturing industry."

The highly qualified and experienced team of **Shree Gayatri Enterprise** guarantees top of the line quality and most importantly, on-time deliveries. Our underlying business policy is to invariably put the interest of the customer first. This policy always goes a long way in establishing strong brand loyalty."

The plant is equipped with Hi-Tech Machine Shops. No matter how large the order size, no matter how complicated the design, Shree Gayatri Enterprise can meet with the demands of its valued customers."

## About **Shree Gayatri Enterprise**

Since 1995, starting in a small space

**Shree Gayatri Enterprise** has been committed to quality work, excellent service, and quick turnaround time with competitive prices.

Today we serve customers across India from our state-of-the-art facility equipped with Hi-Tech machines, yet we remain a small business with the same goals we had at the beginning: to provide our customers with incomparable service and to stand behind everything we make.

Over the years, **Shree Gayatri Enterprise** has assembled an incredible experience and knowledgeable staff. These individuals give **Shree Gayatri Enterprise** a technical and competitive edge.

Our experience helps us contribute to each customer's success. By working right alongside our customers, our company provides that extra personal experience and expertise that sets us apart from our competitors. We are always looking for ways to improve our work and customer service. We have done our best to grow and improve for more than 25 years, and we look forward to doing it for another 25 years!

**Shree Gayatri Enterprise** manufactures Custom Profile Gears, Spur Gears, Racks & Pinions, Planetary Spur Gears, Gear Sprockets, Differential Spur Gears, Spline Gears, and many more precision machined components. Our staff takes pride in the quality of our extensive product line. Using the latest manufacturing and inspection techniques we provide a complete one-stop, economical solution for all your gearing and precision machining needs. We can manufacture gears from 10 mm outside diameter all the way to 500 mm outside diameter. If you don't need complete parts, we can also provide cut teeth (inside and outside) only operations.



# **Why Choose Us?**

There are hundreds of companies to choose from. Finding one you can count on and build a relationship with for the long term is a difficult task. Here are some reasons why you have made the best decision for your company by choosing us.

## **Industry Expertise:**

By working with so many successful customers, our company has acquired knowledge and expertise in many areas. We put that knowledge and the requirement of our customers into the manufacturing and are able to provide valuable business knowledge as an overall service.

## **Customer Service:**

We provide our customers with unbeatable service while providing top quality products at competitive prices. We strive to abide by the Golden Rule. By treating people the way we want to be treated, our customers have come to trust the work we do. We work alongside our customers to meet their unique demands.

## **Consistent Quality:**

Our reputation for exceeding the highest quality standards in precision parts machining is precisely why our customers choose us and choose to stay with us. Our first customer is still our customer almost two decades later because of the quality they get part after part and year after year.

## **Always on Time:**

We always deliver our products and services on time to our valued customers so that they can accomplish their goals by using our product effectively and efficiently. Delivering products on time and efficiently is not always easy, but if done properly, it can help a business stand out from the competition.

## Our Services & Products



**Shree Gayatri Enterprise** takes pride in offering a full range of products from standard spur gears to gears designed for custom or unique applications. Shree Gayatri Enterprise has the capability to manufacture gears up to 500 mm in outside diameter, with a number of teeth ranging from 6 to 300, a maximum width of 140 mm, and metric gear sizes from 0.3 to 8.0 module. The pressure angle can be applied based on the requirement including 20°, 14.5°, and many more.

**Shree Gayatri Enterprise** is a leading manufacturer of precision gears for all applications. We provide precision gears in standard and custom inch-measure sizes and a variety of configurations. Shree Gayatri Enterprise manufactures custom spur gears based on your 2D drawings, 3D models, or old, worn-out parts or samples. We will manufacture them out of the material YOU specify or we will take your sample gear and have it tested to determine the material and hardness. Either way, you will receive a custom gear manufactured to your custom needs.

Our Product Categories include:

- **Spur Gears**
- **Racks & Pinions**
- **Planetary Spur Gears**
- **Gear Sprockets**
- **Differential Spur Gears**
- **Spline Gears**

# General Product Specifications:

Outside Diameter	Min: 10 mm	Max: 500 mm
Metric Gear Size	Min: 0.3	Max: 8.0
Face Width	Max: 140 mm	
Pressure Angle	ANY (Depending on Requirement)	
Manufacturing Material	Steel, Stainless Steel, Cast Iron, Brass or Bronze, Aluminum and many more based on customer's requirements	

## Product Information:

Gear applications are quite diverse and highly customizable; they appear anywhere that an application requires speed reduction, speed increase, power transmission, motion transmission, or force reduction.

Most often, industrial gear applications appear in industries including automotive, aviation, railway, transportation, and food production. They can be found in cars and trucks, gear motors, bicycles, motorcycles, airplanes, belt pulley systems, and more.

## What is a gear?

A gear is a rotating machine part that utilizes cut teeth, or cogs, to mesh with another toothed part—usually another gear or a linear toothed part (called a gear rack)—to transmit rotational motion and torque. By using a combination of precision gears with the correct ratio, the speed, torque, and even direction of a power source can be changed.

Two or more gears working together called a gear train or a transmission will almost always create a change in torque. If one gear is larger than the other, a mechanical advantage is produced; the rotational speed and torque of the respective gears differ in proportion to their diameters.

Materials handling, food processing, textile manufacturing, clock making, heavy industrial mining equipment, and oil rigging equipment depend on gears for the transmission of motion as well. Compared to gears applied in commercial and consumer product contexts, industrial gears are usually characterized by heavy-duty construction and durable metal composition.





## Spur Gears

Spur gears operate on parallel axes; the axes of spur gears are parallel when they are placed next to each other. When two gears designed to interlock with each other are positioned together, one gear turns and transfers torque to the next gear as a result.

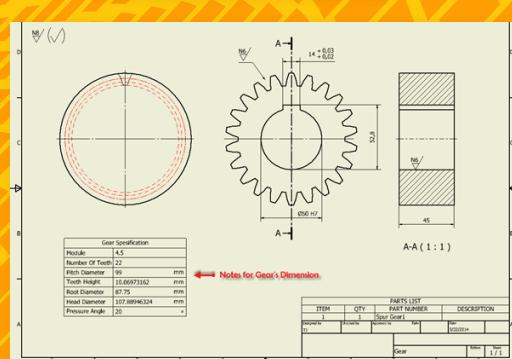
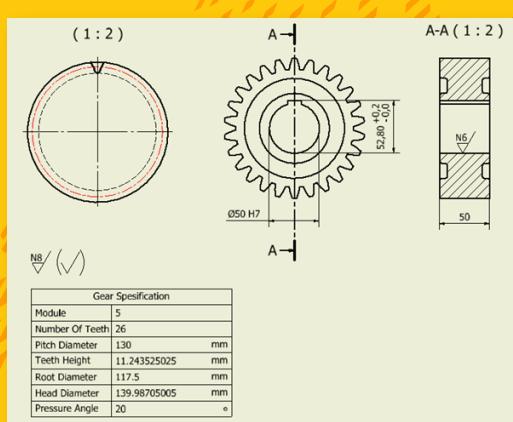
The composition of a given spur gear and its configuration will vary based on its intended use. Spur gears in a hand-held power tool, for example, will need to combine qualities of durability with low weight in order to make the tool effective as well as easy to handle.

In large scale milling operations, spur gears are chosen for their qualities of strength, durability, and other features that ensure long-term, efficient operation.



In every application, though, diameter, pitch values, and other similar considerations are necessary to ensure effective operation. A diameter of a spur gear and the size of its teeth contribute to rotational speed and control. Such qualities must be evaluated on an individual basis in order to ensure continued, effective, and safe gear operation.

Spur Gears are used in windmills, locomotives, automobiles, aircraft, manufacturing machinery, elevators, escalators, hand power tools, and an extensive variety of other equipment that involves the transmission of torque.

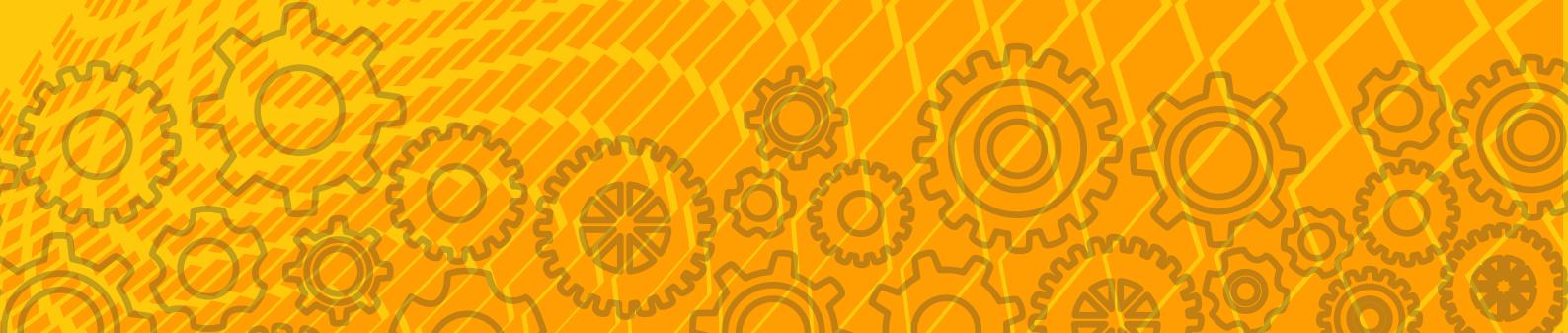


# Racks & Pinions

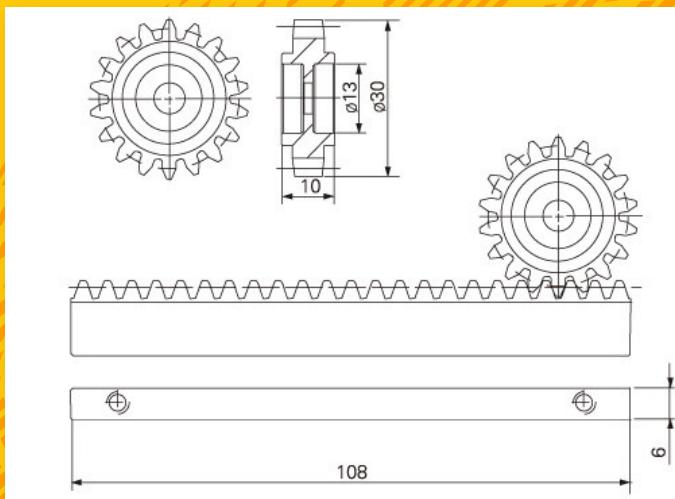
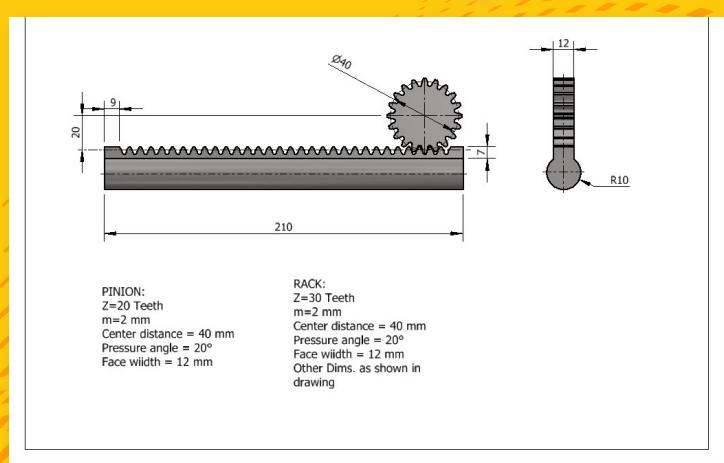
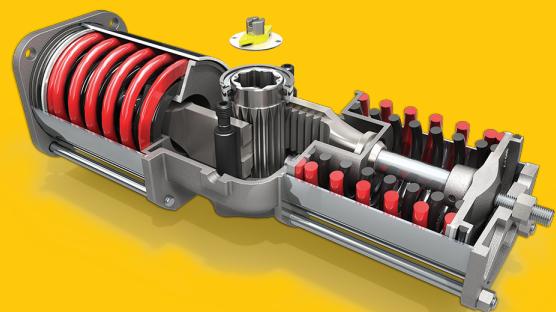
Rack and pinion gears feature a rack meshed with a pinion. A rack is a toothed bar or rod with an infinite radius of curvature. When meshed with a pinion, as the pinion turns, the rack moves in a straight line and converts torque to a linear force.

Rack and pinion spur gears are common components of rack railways and automobiles. In the latter, they convert steering wheel rotation into the left-to-right motion of tie rods.

There are applications where the gear rack is stationary, while the pinion traverses and others where the pinion rotates on a fixed axis while the gear rack moves. The former is used widely in conveying systems while the latter can be used in extrusion



Rack and pinions are used for lifting mechanisms (vertical movement), horizontal movement, positioning mechanisms, stoppers and to permit the synchronous rotation of several shafts in general industrial machinery. Rack and pinions are used for various other purposes, such as actuators, drilling machines, stair-lift, toys, lateral slide gates,

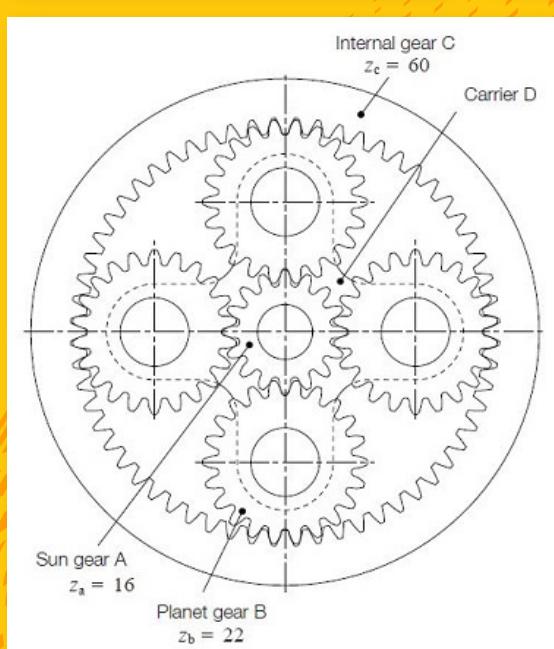




# Planetary Spur Gears

Planetary gears are among the more complicated gear systems. They contain one central spur gear, or "sun gear," surrounded by three or more "planet gears;" the exterior gears interlock with the inward-facing teeth of a larger internal gear, increasing the output speed of the large outer gear through rotational torque applied to the internal sun gear.

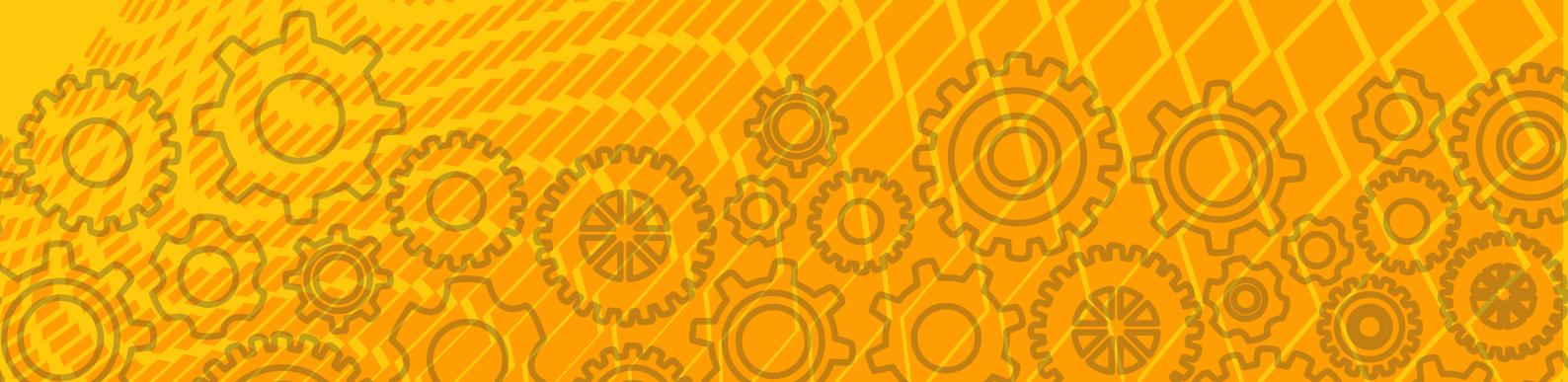
Spur gears transmit motion and torque laterally through compatibility with other parallel aligned gears and such gears are the main components in planetary gears.



# Gear Sprockets

Sprockets are profiled wheels with teeth that mesh with a perforated material to create a reliable drive system. They are known for being a dependable drive system for continuous drive applications providing the maximum absorption of shock and minimum torque load.

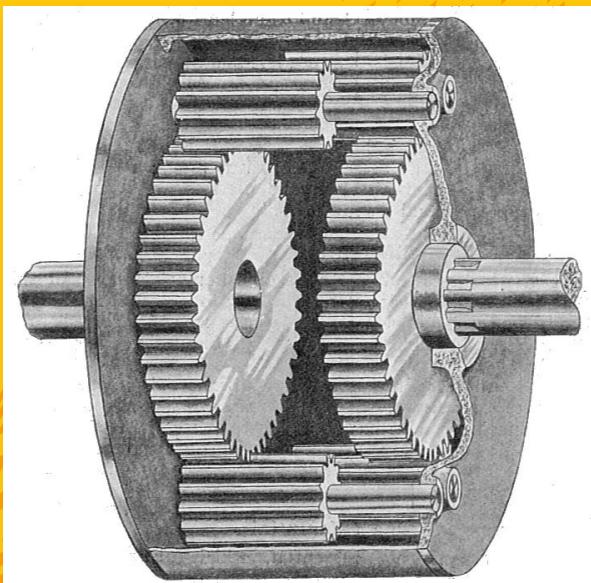
Spur gears are often used as sprockets, which are thin gears with teeth that lock easily into roller chains. Sprockets act as a non-slip pulley for power transmission applications; they can be used in combination with bicycle chains, tank treads, and other similar chain or tread based movement apparatus.





# Differential Spur Gears

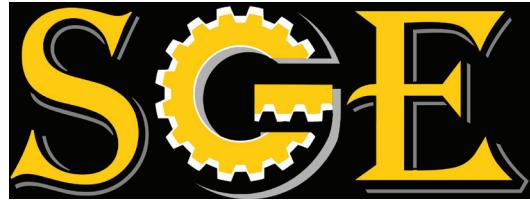
Differential spur gears feature two shafts that can be independently adjusted in angle and direction. Differential spur gears are designed to mesh and work with one another at a controlled speed in order to produce a desired amount of torque. Mostly, differential gears are used in automobiles.



# Spline Gears

Spline gears are either cylindrical or rod-shaped with straight teeth that allow them to transmit motion laterally by fitting inside internal devices or gears.





# SHREE GAYATRI ENTERPRISE

We are devotedly engaged in offering a wide range of Industrial Gears to our prestigious clients. Qualitative grade basic material and progressive techniques are used by our dexterous professionals in the manufacturing of these gears.

We provide Industrial Gears in different technical specifications as per the requirements of our clients.

## Contact Person: Dilip Patel

### Address:

11 - Narayan Estate, Opp. Shreeram Estate,  
In CMC Lane, Anup Eng. Lane, Nr. Soni's Chawl,  
Odhav, Ahmedabad-382415.

### Email:

[contact@shreegayatrienterprise.in](mailto:contact@shreegayatrienterprise.in)  
[dpatel@shreegayatrienterprise.in](mailto:dpatel@shreegayatrienterprise.in)

### Phone:

+91 9426372726, +91 9377943570

### Website:

[www.shreegayatrienterprise.in](http://www.shreegayatrienterprise.in)

