

# PARAJIYA ENGINEERING WORKS

AN ISO 9001:2000 COMPANY



**PARAJIYA ENGINEERING WORKS**

**Regd. Office & Works :**

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**SPUR GEAR • HELICAL GEAR • RACK • COUPLING • TIMING PULLEY**



## PROFILE

PARAJIYA ENGINEERING WORKS & Group of companies headed by Shri Amubhai Parajiya, laid its milestone in the year 1982 with a vision to attain a never before level in the field of gear technology. Started with the manufacturing of gear cutting machineries, today with years of engineering experience the company is one of the leading gear manufacturer and has become a source of supply to many of the rapid developing fields of engineering such as automobiles, earthmoving equipments textiles, diesel engines, machine tools, sugar mills, elevators, cranes.

With a team of highly skilled technocrats led by Hitesh Parajiya and a teamwork of more than 75 skilled staff works round the clock and makes a sincere effort to thoroughly recognize barriers in every facet of technical operation and upgrade the manufacturing processes.

Rajkot being the hub for the engineering expertise also has many OEM company approved forging plants & heat treatment plant (RAVI METAL TREATMENTS), measuring instrument labs (CMTI, TEJAL INSTRUMENTS) which gives our company a competitive advantage to provide such technical services efficiently and economically to our valued customer.

## VISION

With a clear vision of customer satisfaction our prime concern has always been to keep our customer at a leading edge of development both technologically and economically.

## PRODUCTION OVERVIEW

Company with its current infrastructure has a production capacity of 60,000 gears per month with DIN class accuracy 8 & 9.

## QUALITY CONTROL

Equipped with all monitoring and measuring instruments used in the manufacturing processes, we aim at stringent quality control aspects for gears. All parts and manufactured and inspected as per the German Specifications (DIN standards) and majority of parts are self certified by our OEM'S and are directly used at their assembly lines.

Gear helix and profile testing, metallurgical and chemical analysis are carried out in association with CMTI (central institute of manufacturing technology lab & PTC lab (govt. Body) equipped with state of art instruments.

## OUR VALUED CUSTOMERS

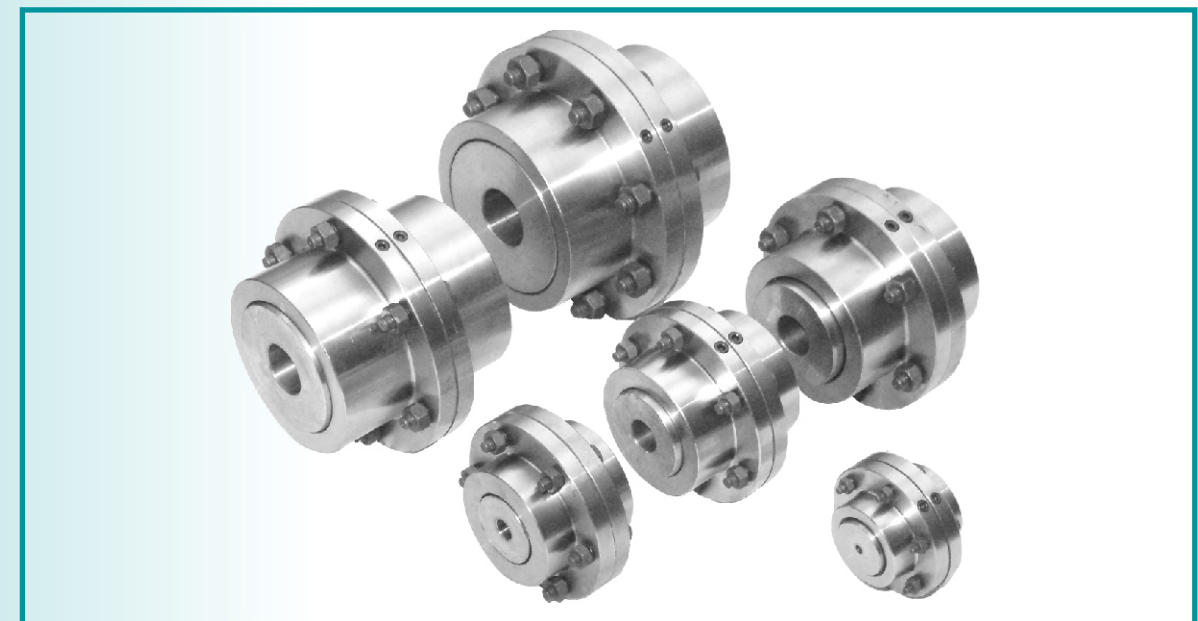
With over more than 30 customers selecting us as a source of supply we cater to many industrial giants in fields such as automobiles, earthmoving equipments, marines, diesel engines, machine tools, sugar mills, elevators, hoist and cranes.

- Atul Auto Limited (3-Wheeler Auto )
- Bhavani Industries (Vendor To Telco)
- Amul Industries Pvt. Ltd.
- Adico Spares Pvt. Ltd.
- Kirloskar Oil Engines Pvt. Ltd.
- Macpower Industries
- P.M. Diesels Ltd.

## FUTURE PLANS

Today, a company under the leadership of Mr. Ashok Parajiya & Mr. Hitesh Parajiya has a group of highly experienced technocrats looking over design, production, quality and development. With an unmatched technical know how gained by the experts the company is now rapidly making exposure to the global market for gears and machined components.

NO.	FIELD	AT PRESENT	BY 2007
1	PRODUCTION CAPACITY	60,000 gears per month	80,000 gear per month
2	GEAR ACCURACY	DIN CLASS 8 & 9	DIN CLASS 6 & 7



Gear Couplings

## PRESENT INFRASTRUCTURE

### → Forging

Close die forging upto 50 kgs and diameter upto 600 mm for components such as gears, flanges, annular rings can be sourced from our associate concern and supplied. Profile components upto 15 kgs weight can be forged.

### → Foundry Units

Grey cast iron of grade 20 and S.G.Iron can be cast into various shapes as per drawing.

### → CNC Workshop

All the gear blanks are machined on CNC turning centers to attain the mentioned geometrical tolerances demanded by the subsequent gear cutting operations. Equipped with measuring instruments such as slip gauges, height gauges, dial comparators, bore gauges, vernier and micrometers the machined components pass through stringent quality control aspects.

MAKE	OD	LENGTH	NOS.
Jyoti Enterprise	350 MM	450 MM	02

### → Gear Cutting Division

Gear Cutting  
Gear Finishing  
Broaching

With over more than 30 teeth cutting machines, the workshop has the capacity to produce precise gears in quantity, conforming to the German Specification DIN 8 & 9 class accuracy.

#### LIST OF GEAR MACHINES

MAKE	CAPACITY	NOS
<b>GEAR SHAPERS</b>		
MESHMATIC S-150	150 MM x 4.25 MOD	03
2A-MAXICUT	150 MM x 4.25 MOD	10
2B-MAXICUT, ENGLAND	150 MM x 4.25 MOD	04
FELLOWS	200 MM x 6 MOD	02
FELLOWS (HIGH SPEED)	150 MM x 4 MOD	11
TOS	150 MM x 4 MOD	01
TOS OH6 (RACK CUTTING)	500 MM x 6 MOD	01
DRUMMOND	700 MM x 8 MOD	01
<b>GEAR HOBGING</b>		
CUGIR-250 (ROMANIA)	350 MM DIA	01
LORENZ	350 MM DIA	01
<b>GEAR SHAVER</b>		
CHURCHILL	300 MM DIA	01
<b>BROACHING</b>		
HORIZONTAL	5 TONNES.	01

### → Heat Treatment

Heat treatment process is done at our associate concern M/s. Ravi Metal Treatment, a company approved by many automobile OEM such as Mahindra & Mahindra, Telco, Atul auto Ltd. etc. Induction hardening, Case hardening with gas carburising, nitriding, soft nitriding, annealing, isothermal annealing, normalizing are the heat treatment process that can be performed.

### → Grinding

Cylindrical and surface grinding for attaining high level of geometrical tolerances is carried out in gears and shafts upto 500 mm diameter and 800 mm length.

## OUR PRODUCTS

### List of Products

	MAX. DIAMETER	FACE WIDTH/LENGTH/OTHER	MODULE
FORGED COMPONENTS	600 MM	UPTO 50 KGS	-
CNC MACHINED COMPONENTS	350 MM	400 MM	-
SPUR GEARS (EXTERNAL & INTERNAL)	500 MM	150 MM	10 MOD
HELICAL GEARS	350 MM	150 MM	06 MOD
SPLINE SHAFTS	100 MM	100 MM	-
RACKS	35 MM	1000 MM	06 MOD
WORM SHAFTS	100 MM	600 MM	06 MOD
WORM WHEEL	350 MM	150 MM	06 MOD
BROACHED COMPONENTS	125 MM	75 MM	06 MOD
TIMING PULLEY	200 MM	150 MM	16 MM PITCH
GEAR COUPLINGS	520 MM	STANDARD SERIES FROM 100 TO 110 NOS.	-
STRAIGHT AND SPIRAL BEVEL GEARS (OUTSOURCED)	CONE DIST. UPTO 150 MM	-	04 MOD

### CNC Machined Components

