

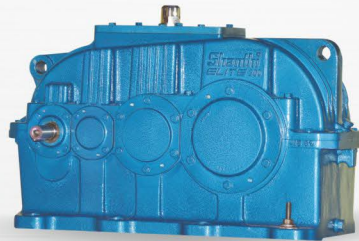


**murugappa**

[www.shanthigears.com](http://www.shanthigears.com)



## **Shanthi** Product Range



**Shanthi**  **Gears**



# The Spirit of the Murugappa Group

These five lights guide us as we navigate through professional and personal decisions.

The light of  
**INTEGRITY**  
that gives us the courage to  
always do the right thing

The light of  
**RESPONSIBILITY**  
that gives us the humility to  
think about the world around us

The light of  
**PASSION**  
that provides us with  
the desire to win

The light of  
**RESPECT**  
that inspires people  
around us to perform

The light of  
**QUALITY**  
which makes us  
dream of excellence



## About Us:

Founded in 1900, the INR 547 Billion (€ 6800 Million) Murugappa Group is one of India's leading business conglomerates. The Group has 29 businesses including ten listed Companies traded in NSE & BSE. Headquartered in Chennai, the major Companies of the Group include Carborundum Universal Ltd., CG Power and Industrial Solutions Ltd., Cholamandalam Financial Holdings Ltd., Cholamandalam Investment and Finance Company Ltd., Cholamandalam MS General Insurance Company Ltd., Coromandel International Ltd., Coromandel Engineering Company Ltd., E.I.D. Parry (India) Ltd., Parry Agro Industries Ltd., Shanthi Gears Ltd., Tube Investments of India Ltd. and Wendt (India) Ltd.

The Group holds leadership position in several product lines including Abrasives, Technical Ceramics, Electro Minerals, Auto Components & Systems, Power Conversion Equipment, Transformers & Reactors for the Power T&D segment, Solutions for Railways in Rolling Stock & Signalling Equipment, Bicycles, Fertilisers, Sugar, Tea and Spirulina (Nutraceuticals). The Group has forged strong alliances with leading international companies such as Groupe Chimique Tunisien, Foskor, Mitsui Sumitomo, Morgan Advanced Materials, Yanmar & Co. and Compagnie Des Phosphat De Gafsa (CPG). The Group has a wide geographical presence all over India and spanning 6 continents.

Renowned brands like BSA, Hercules, Montra, Mach City, Ballmaster, Ajax, Rhodius, Parry's, Chola, Gromor, Shanthi Gears and Paramfos are from the Murugappa stable. The Group fosters an environment of professionalism and has a workforce of over 59,000 employees.

## Shanthi Gears

Shanthi Gears Limited, founded in 1969, has been a leading player in Industrial Gears for over four decades. Today, through strategic innovations aimed at diversifying its customer segments, the Company steadfastly addresses requirements of multitudes of Industries like Steel, Cement, Sugar, Power, Mining, Paper, Transportation etc.

Being a part of the Murugappa Group, Shanthi Gears have brought the highest standards in precision engineering and assembly services to ensure the Customers to receive exceptional service and quality standards that lead the market.

The Engineering facilities are state-of-the-art, and the people are highly skilled with their professionally honed capabilities to execute both reverse and re-engineering of existing gears and gearboxes for diverse application.

Shanthi Gear Limited is the first Indian Gear Manufacturing Company to get the coveted AS-9100D certifications for supply of components for Aerospace.

Accredited with comprehensive Quality Management Certifications through Bureau Veritas, Shanthi Gears Limited is also the First Indian Gear Manufacturing Company to receive IRIS Certification.





# Manufacturing Capabilities



## Foundry:



- In-house Pattern shop.
- CAE Tools for Casting Simulation.
- S.G Iron & Grey Iron Castings.
- Induction melting Furnace.
- Welded Casings-Fabrication unit.
- Non-Ferrous Centrifugal castings.
- Phosphor Bronze, Aluminum Bronze, Leaded Bronze and Copper alloy Spectro Max (28 Element spectrometer) & QA Equipments



## Gears & Housing Machining-Turning, Milling, Hobbing

- CNC Turning Centers- including VTL & VTC with 4X Turn Mill Centers.
- CNC Machining Centers (VMC & HMC) with 5X rotary tables.
- CNC Hobbing Machining Centers.
- Internal Helical Gear Shaping.
- Gleason Spiral bevel Cutting.

## Heat Treatment



- Pit type Electric fired furnaces, with Carburizing, Quenching, Tempering & Nitriding furnaces.
- Online process monitoring using SCADA control.
- Integrated lab facility to check Carbon potential, Micro structure, Micro Hardness.
- Vacuum furnace for controlled heat treatment of cutters.

## Grinding

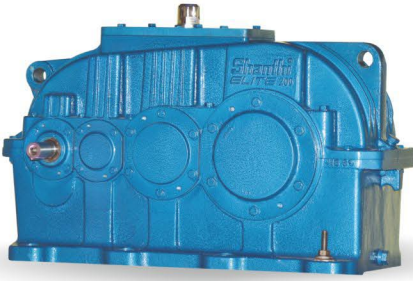


- CNC OD, CNC ID Grinding and Keyway machining including Wire Cutting.
- Gear Grinding machines with Internal Helical and Spline grinding facility.
- Gleason Spiral Bevel grinding integrated with CAGE & GAGE software tools.
- Worm grinding machines.
- Gear testers.



# Product Range

## Helical & Bevel Helical Gear Boxes :



### Standard Elite Parallel Shaft Helical Gear Box :

Range	Centre Distance Single Stage upto 630 mm
Ratio	1.125:1 to 6.3:1
Range	Centre Distance 2,3,4 Stage upto 800 mm at Final Stage
Ratio	Upto 630:1
Type	Solid / Hollow Output Shaft
Cooling	Self, Fan or Forced



### Standard Elite Bevel Helical Gear Box :

Range	Centre Distance 2,3,4 Stages upto 800 mm at Final Stage
Ratio	5:1 to 630:1
Range	Centre Distance 2,3,4 Stage upto 800 mm at Final Stage
Type	Solid/Hollow Output Shaft
Cooling	Self, Fan or Forced

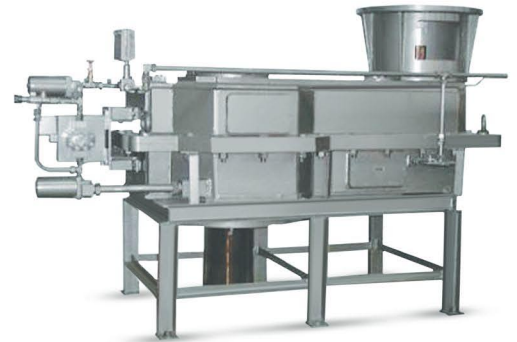
## Customised Helical Gear Box :



Pinion Stand (Horizontal)



Ladle Transfer Car Gearbox

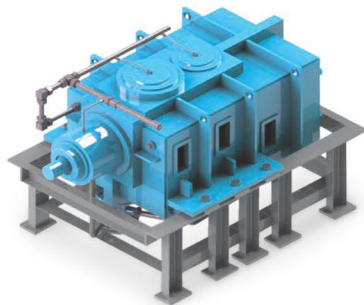


Stirrer Gearbox

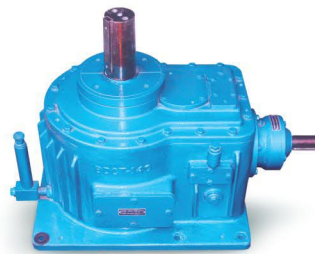
## Customised Bevel Helical Gear Box :



Pulper Gearbox



Pinion Stand (Vertical)



### Cooling Tower Gear Boxes:

Range	Size 130 to 432
Ratio	5:1 to 16:1
Type	2 Stage Helical/Bevel Helical



### Spur & Helical Gears:

Upto 30 module Profile Ground and Lapped Finish as per request



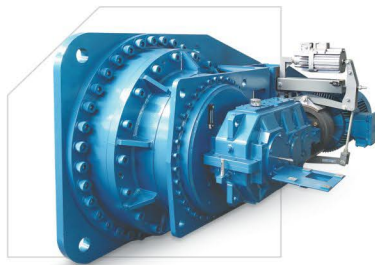
### Gears & Pinions : Straight & Spiral Bevel Gears:

Upto 30 module Profile Ground and Lapped Finish as per request

## Special Gear Boxes :



Vertical Roller Mill Gearbox  
(Cement & Coal Pulverizer)



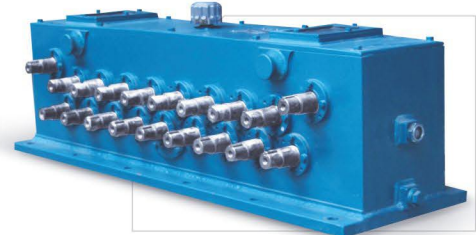
Ladle Tilting Gearbox



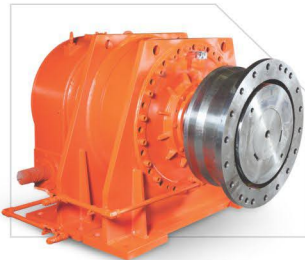
Coiler Gearbox



Tube Mill Gearbox



Leveller Gearbox



Launcher Platform  
Positioning Gearbox



Pinion Stand Gearbox



Chemical Mixer - Twin Output Gearbox

## Extruder Gear Boxes:

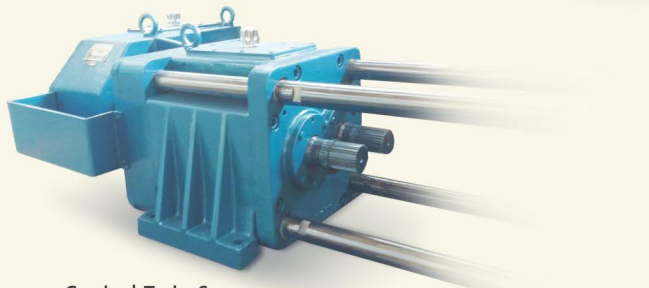
Range Upto 360 mm final Stage Center Distance

Ratio Upto 22.4:1

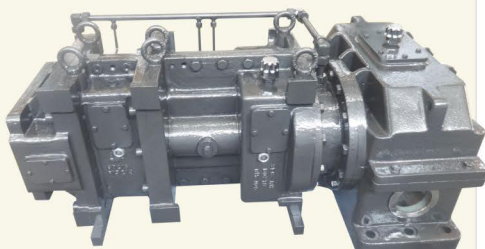
Thrust Bearing Upto 29452 E

Type Helical with built in Thrust Bearing

Mounting Horizontal / Vertical



Conical Twin Screw  
Extruder Gearbox



Counter Rotating Twin Screw  
Extruder Gearbox

## Planetary Gear Boxes:

### Standard Planetary Gear Boxes :

Range Output Torque Upto 1.5 MNm Torque

Ratio Upto 4000:1

Type Solid /Hollow Output Shaft



Customised Planetary Gear Box :

Chain Conveyor  
Drive Gearbox (Cement)



Main Hoist Gearbox



## Worm Gear Boxes :



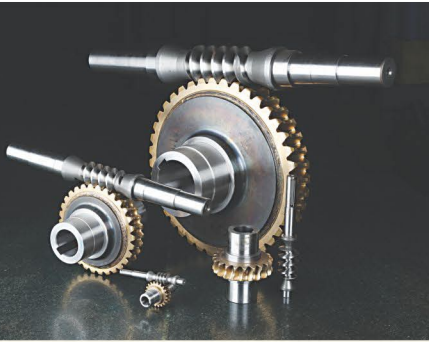
### Standard Worm Plus Gear Box :

Centre Distance	1.125" to 17"
Ratio	5:1 to 4900:1
Type	Adaptable, Underdriven, Overdriven, Vertical, Hollow Shaft & Double Reduction Models

### Customised Worm Gear Box :



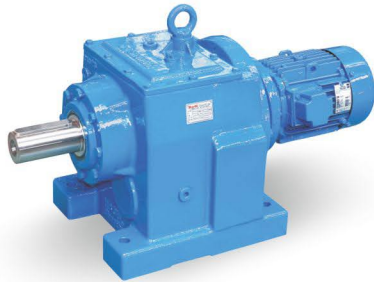
Screw Jack



### Worm & Wheel Pair:

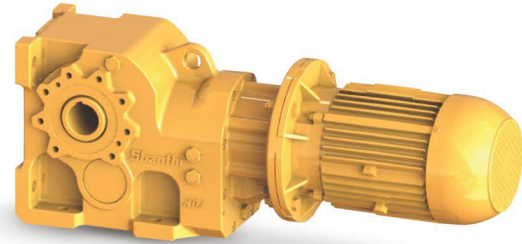
Centre Distance	1.125" to 41"
Ratio	5:1 to 70:1

## Geared Motor :



### Standard Inline Helical Geared Motor :

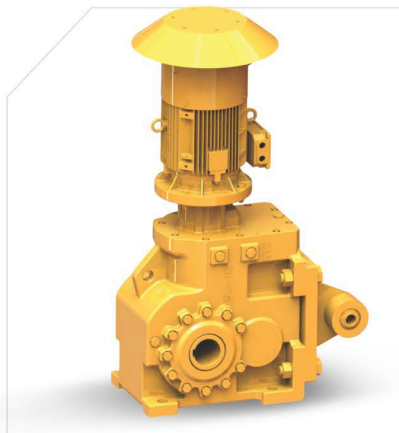
Range	12 Sizes, Max rated torque 145 Nm to 20680 Nm
Power	Upto 90 KW
Mounting	Foot & Flange
Input Shaft	Hollow and Solid,
Output Shaft	Solid



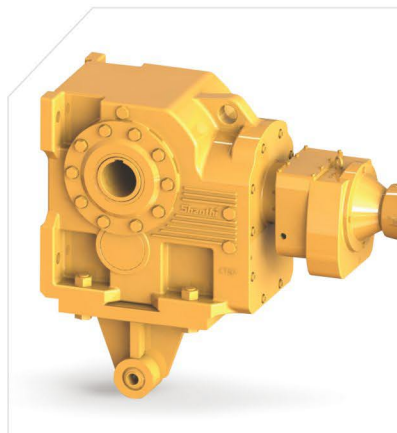
### Standard Helical Bevel Geared Motor :

Range	Max. rated torque 902 Nm to 37000 Nm
Power	0.12 KW to 90 KW
Ratio	5 to 150
Mounting	Foot, Flange & Face
Input / Output	Hollow & Solid option

## Customised Geared Motor :



Travel Drive



Water screening equipment drive



Agitator drive

## Foundry Products

Shanthy Gears is a premium quality Ferrous and Centrifugal Nonferrous casting manufacturer in INDIA. We produce machined or un-machined S.G. Iron, Grey Iron castings from 1 Kg to 1.5 ton single piece weight and also produce Phosphor Bronze, Aluminum Bronze, Leaded Bronze and Copper alloy castings through Centrifugal, Gravity Die and Hand Moulding casting process.



Traction Motor Casing for Metro Train.



Traction Motor Gear Casing for High Speed Train.



Shaft Bush for Crusher



Eccentric Bush for Crusher



Head Bush for Crusher



Bonnet Thrust Ring for Crusher



Thrust Bearing Lower Part for Crusher.

## Quality Control & Engineering Capabilities

With a strong engineering workforce and a technology center equipped with the latest tools, Shanthy Gears Limited is your destination of choice for both faster development and consistent supply of mission critical gear requirements.



### Product Design & Engineering

- Experienced & Strong workforce with Engineering
- Tools-CAD / CAM / CAE / PLM tools
- Standards-DIN / ISO / AGMA compliance
- Optimization & Validation techniques
- Integrated tooling & process design
- International consultants, on demand



### Quality Control Facilities

#### RM Testing

- Dimensional Inspection
- Chemical Testing
- Mechanical Testing
- Metallurgical Testing
- Non Destructive Testing
- 7- ASNT Level II Certified Persons

#### In-process Inspection & Testing

- Dimensional Inspection
- Metallurgical Inspection & Testing
- Gear Profile Testing
- Base Tangent / MOP
- Surface Finish
- GD & T
- Center Distance



# Certifications



## Sales & Service Network

- |             |               |
|-------------|---------------|
| Ahmedabad   | Jamshedpur    |
| Baroda      | Kanpur        |
| Bengaluru   | Kolkata       |
| Bellary     | Ludhiana      |
| Bhubaneswar | Madurai       |
| Chennai     | Mumbai        |
| Coimbatore  | Nagpur        |
| Delhi       | Pune          |
| Guwahati    | Raipur        |
| Hyderabad   | Udaipur       |
| Indore      | Jaipur        |
| Rourkela    | Vishakapatnam |

# Shanthi Gears

**Shanthi Gears Limited**  
(A Murugappa Group Company)

“C” Unit, Avinashi Road,  
Muthugounden Pudur Post  
Coimbatore - 641406. India.

Phone : 0422 - 4545745  
E-mail : info@shanthigears.murugappa.com  
Website : www.shanthigears.com