

MANUFACTURER OF GEARS AND GEAR UNITS

# HYTECH INDUSTRIES



# INTRODUCTION

Hytech Industries is an ISO 9001-2015 Company enjoys a reputation for excellence in Gear Engineering and latest technological know how. Our unique strength is derived from decades of experience in gear technology for various end applications. Our product range includes precision-machined components and gears covering a wide range of Engine Gears & mechanical power transmission applications .



- Gear technology is an area of specialization in Mechanical Engineering. And to us it is more an art than a science. We have acquired the expertise to understand the critical requirements of every application and implement this through well-defined systems and planning, right from selection of raw material up to the finishing operations; each process undergoes rigorous quality control tests.
- Our quality Engineering team interacts with all related departments continuously to build quality through strict process control.
- We have developed various special and non-standard gear profiles and have been successful in supplying them to the best in the industry.



Charging Pump Internal And External Gear



Bevel Gear And Bevel Pinion For Rotowator

# LIST OF MAJOR CUSTOMERS



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- Bharath Earth Movers Ltd.,  
KGF,EM, H&P Division
- Dandy Roles India Limited
- Dynamatic Technologies,  
Bangalore
- El Forge Limited, Tamilnadu
- Fairfield Atlas
- Tirth Agro Technology Pvt.Ltd.
- V.S.T. Tillers and Tractors  
Limited, Bangalore.
- HINDUSTAN MACHINE TOOLS  
LTD
- MHI-VST Diesel Engine, Mysore
- New Allenberry Works
- Pricol Limited, Tamilnadu
- S & V Industries, U.S.A
- SAS Engineering, Canada<sup>23</sup>  
Selam Steel Plant, Selam
- Tatra Trucks India Limited, Hosur
- Kirloskar Oil Engines  
Ltd(KOEL),Kolhapur

# MANUFACTURING FACILITIES

- Our facility Situated at Peenya Industrial Estate is equipped with Gear Hobbers, Bevel Generators, Gear Shapers, Gear Shaving machines, Gear Grinding machines, worm milling, CNC turning & hobbing and also machinery for manufacturing of general precision machined components with suitable quality control equipment.



CMM



Doosan CNC Turning



Makino VMC Machine

# LIST OF PRODUCTS AND CUSTOM BUILT PROJECTS

- Helical Gears
- Taper Gears
- Internal Splines
- External Splines
- Bevel Gear
- Internal Bevel Pinion Shaft
- Worm Wheel
- Worm Shaft
- Screw Rods
- Sector Gears
- Rack and Pinion
- Screw Jacks
- Reduction Gear Box1
- Winch for BEML Requirements



BEML Winch gear box



Worm Reduction Gear Box Single Output



L Angle Bevel Gear Box Two-way Drive



Screw Jack Custom Made Up To 50 Tons



Steering Tie Rod Assembly





BEVEL GEAR AND BEVEL PINION FOR ROTAWAITOR & OTHER APPLICATIONS

PUMP BOY ACCESSORIES



INTERNAL GEARS AND SLEEVES

CHARGING PUMP INTERNAL AND EXTERNAL GEARS



SPUR GEARS- HOBBED, SHAVED AND GROUND

HELICAL GEARS 0.5 TO 10 MODULE

PUMP GEARS 2 TO 5 MODULE



SPROCKETS



SPLINE SHAFTS 50MM TO 1METER LONG



SPROCKETS



SPLINE SHAFTS



STRAIGHT AND HELICAL RACKS



SPLINE SHAFTS

# MASTER LIST OF MACHINERIES

Sl. No.	Machine Name	Description of Machines	Make	Qty in Nos.
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## Vertical Machining Center

1	Vertical Machining Center Agro Milling Machine	X: 650 mm Y: 500 mm Z: 450 mm	Makino-S33	1
	Agro Milling Machine			

## CNC Turning Center

2	CNC Turning Center LT-20 Classic	Ø300x600mm	Ace Designer	1
	CNC Turning Center LT-2XL	Ø200x450mm Long	Ace Designer	1
	CNC Turning Center EX-106	Ø240x350 mm	Taiwan Takisawa	1
	CNC Turning Center Puma-280L	Ø420x1100 mm	Doosan	1

## Gear Grinding Machine

3	Gear Grinding Machine SZA	Ø240/300x5M	Reishauer	1
	Gear Grinding Machine NZA	Ø240/300x5M	Reishauer	2

## ID and OD Grinding Machine

4	ID and OD Grinding Machine TI MACHINE	Ø300x1000 mm	TI Machine Tools-Coventry	1
	ID and OD Grinding Machine G-17	Ø200x450 mm	H M T	1

## Bevel Gear Generators

5	Bevel Gear Generators	Ø500x 8 M	Stanko Import	1
	Bevel Gear Generators	Ø250x 6 M	Heidenreich & Harbeck	1

## Gear Shaving Machine

6	Gear Shaving Machine ZSA-220	Ø220x6 M	Hurth	1
	Gear Shaving Machine Churchi	Ø220x6 M	Churchill	2
	Gear Shaving Machine ZSA-320	Ø320x6 M	Hurth	4
	Gear Shaving Machine Red Ring		Red Ring	1

## Gear Hobbing Machine

7	Gear Hobbing Machine	Ø600x6 M	Lorenze	1
	Gear Hobbing Machine	Ø600x6 M	Tos-Fo6	1
	Gear Hobbing Machine	Ø100x1.5 M	Mikron	1
	Gear Hobbing Machine	Ø710x8 M	Tos OF-71	1
	Gear Hobbing Machine	Ø200x6 M	Churchill	1
	Gear Hobbing Machine	Ø200x6 M	Pfauter RA-200	3
	Gear Hobbing Machine	Ø160x2 M	Pfauter 160H	2
	Gear Hobbing Machine	Ø700x7 M	Tos OF-32A	4
	Gear Hobbing Machine	Ø200x6 M	Liebherr-L200	3

	Gear Hobbing Machine	Ø300x4 M	Liebherr-L300	1
	Gear Hobbing Machine	Ø150 x 3 M Type:LF151	Lorenze	1
	Gear Hobbing Machine	Ø150 x 3M	Clew land	1
	Gear Hobbing Machine	Ø150 x 3M	lez Barnar	1
	Gear Hobbing Machine	Ø150 x 3M x 1Met. Length	Barbar Column	1
	CNC Gear Hobbing Machine	Ø150 X 3M	pfauter 150	1
	CNC Gear Hobbing Machine	Ø250 X 5M	pfauter 250	1

### Gear Shaping Machine

8	Gear Shaping Machine	Ø180x 3 M(Taper Shaper 8°)	Lorenz	1
	Gear Shaping Machine	Ø180x 3 M	Lorenz	3
	Gear Shaping Machine	Ø600x6 M	Tos OHO-50	2
	Gear Shaping Machine	Ø600x6 M	Tos OHA-50	1
	Gear Shaping Machine	150x6 M	HMT Masmatic	1
	Gear Shaping Machine	Ø160x4 M	Fellows	1
	Gear Shaping Machine	Ø300x 3 M	Russian	1

### Broaching Machine

9	Broaching Machine Frost RISZ	16 Ton x 1250 mm	HMT Frost RISZ	1
	Broaching Machine	10 Ton x 900 mm	Klink	1
	Broaching Machine	6 Ton x 1250 mm	Crane Bell	1
	Broaching Machine	25 Ton x 2000 mm (VP25X78)	U.S.B	1

### Milling Machine

10	a) Vertical Head		Stanko Import	1
	b) M2		HMT	1
	c) Alceira 703 LE		Franche-Corute	1

### Turning Lathe Machine

11	Turning Lathe Machine Type-1		Shimoga	1
	Turning Lathe Machine LB-17 x 1700 mm		HMT	1
	Turning Lathe Machine Kirloskar-1330		Kirloskar	1
	Turning Lathe Machine PSG124		PSG	1

### Drilling Machine

12	1) RADIAL DRILLING			1
	2)EFFCO DRILLING MT 3		EFFCO	1
	3) WEBO-Gang		Gradua 40	1

### Keyway Slotting & Keyway Milling

13	a) Size: Ø400 x 100 mm Stroke		Eifco	1
	b) Size: Ø200 ht. x 20 mm width			1

### Special Purpose Machine

14	a) Facing and Centring Machine 1000 mm		WMW	1
	b) Tool and Cutter Grinding Machine			1
	c) Gear Shaper Cutter Re- sharpening			1
	d) Tooth Rounding Machine			1
	e) Tooth Rounding		Heys-10	1
	f) Tooth Chamfering Machine		Hurth-ZK5	2
	g) Rotary Deburring Machine			3
	h) Arc Welding Set 300 amps Ac			1
	i) Co2 Welding Machine Auto K400		Esab Make	1
	j) Broach Re-sharpening 2000mm with DRO		Nachi	1
	k) Surface Grinding 200mm x 500 mm		Tos	1
l) Hob Re-sharpening		Klingelnberg	1	

15	<b>Inspection Machines</b>		
	a) Crack Detection	Magnaflux	1
	b) Lead and Profile Tester PH-60 Retrofitted Computerized	Maag PH-60	2
	c) Roll Testing Ø200 mm Master x Ø600mm	England-R2	1
	d) Air Bore Gauge	Baker PFL	2
	e) CMM Micro Hight-3CD	Tesa	1
	f) Surface Roughness Tester	Tesa	1
	g) Optiv Lite Vision Measuring System	OLM2515 (Hexagon)	1



Reishauer Gear Grinding M/C



Gear Shaving M/C



PE-250 CNC Hobbing

# HYTECH INDUSTRIES

MANUFACTURER OF GEARS AND GEAR UNITS

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**Thanks**  
for your attention!

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