

Unit Profile

IP Rings Ltd., a member of Amalgamations Group of Company and having a Collaboration with Nippon Piston Rings, Japan is producing Piston Rings for Automobile Applications to cater the needs of the various prestigious customers like TELCO, Ashok Leyland, Mahindra & Mahindra, Simpson, Hindustan Motors, Eicher, Maruti, Hyundai, Royal Enfield, TVS Motors.

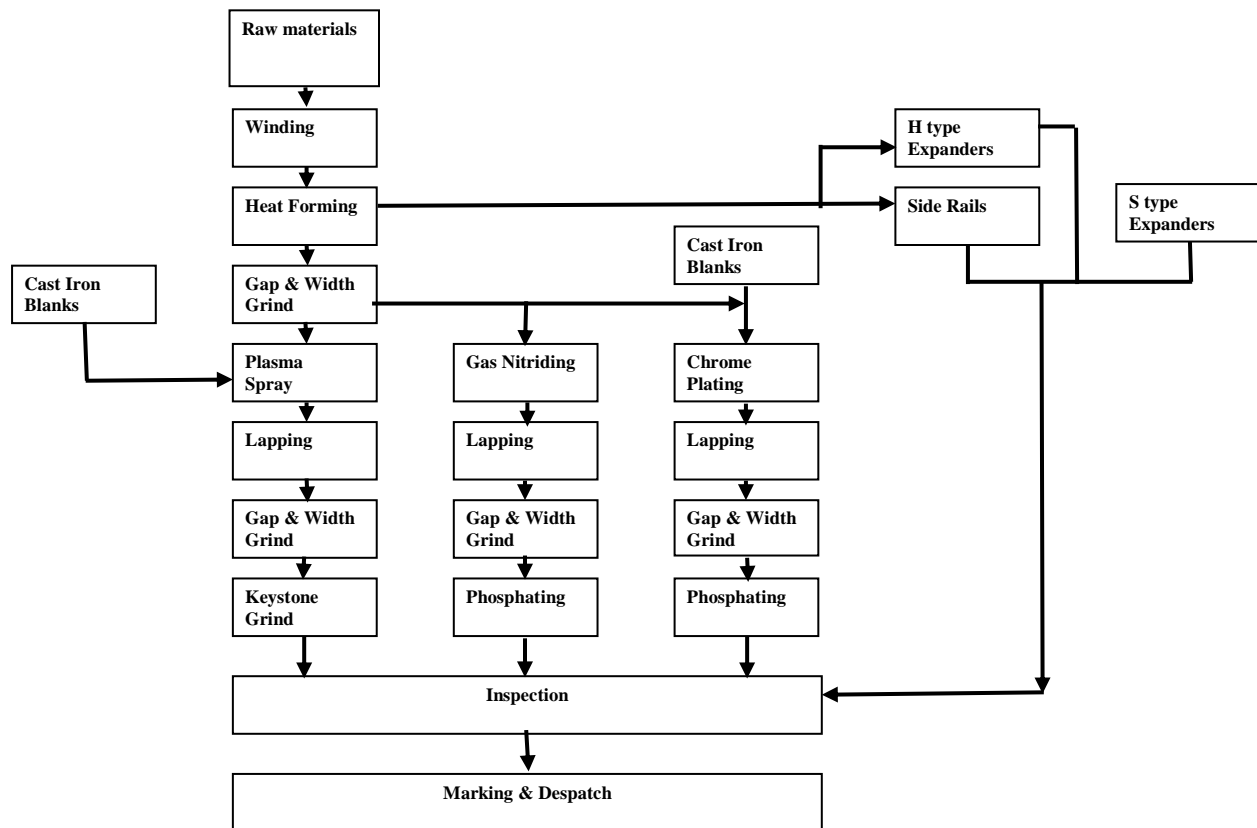
Established in 1991, IP Rings manufactures a variety of Steel, SG Iron, Cast Iron Compression Rings with intricate geometries and profiles. It is equipped with facilities for Surface Treatments like Plasma Spraying, Flame Spraying, Gas Nitriding & Chromium Plating. For Leyland products, we have the facility of “All over Width Chrome Plating” which is rare of its kind in our Country. For the Three Piece Oil ring, IP Rings has the facility to manufacture both Nifflex H & S type rings, which is a unique specialty under one roof.

IP Rings is Certified for ISO / TS 16949 for its Quality Systems, ISO 14000 for Environmental regulations, OHSAS 18000 for Occupational Health and Safety standards and its R & D set-up is accredited by Govt. of India.

Turnover of 56 crores from its Piston Rings operations, IP Rings has now diversified its business operations to the manufacture of Synchrocones and Bevel Gears through Cold Forming Technology.

Process Flow Chart

For Piston Rings



Energy Consumption

By implementing various energy conservation projects there has been a consistent decrease in the Specific Energy consumption.

Description	Unit	2005 - 2006	2006 - 2007	2007 - 2008
Piston Rings produced	No. of Rings / annum	83,34,735	10,195,190	10,619,621
Electrical energy consumption in Lakhs	Units / annum	38.37	38.6	37.12
Specific Electrical energy consumption	Units / Ring	0.42	0.35	0.30

Year	Electricity Consumption (Units / Ring)	% Reduction over 2005 - 2006
2005 - 2006	0.42	---
2006 - 2007	0.35	16.7 %
2007 - 2008	0.30	14.3 %

Energy Conservation Commitment

IP Rings is committed to conserve energy in all aspects. Towards this, many initiatives like getting the inputs from the visitors, visting other factories, sharing the improvements to the cluster members and learning from them, benchmarking with companies like Mico Bosch, GKN Driveline, training of our employees thro' organizations like CII, ACMA, implementing suggestions from our employees and creating awareness to them.

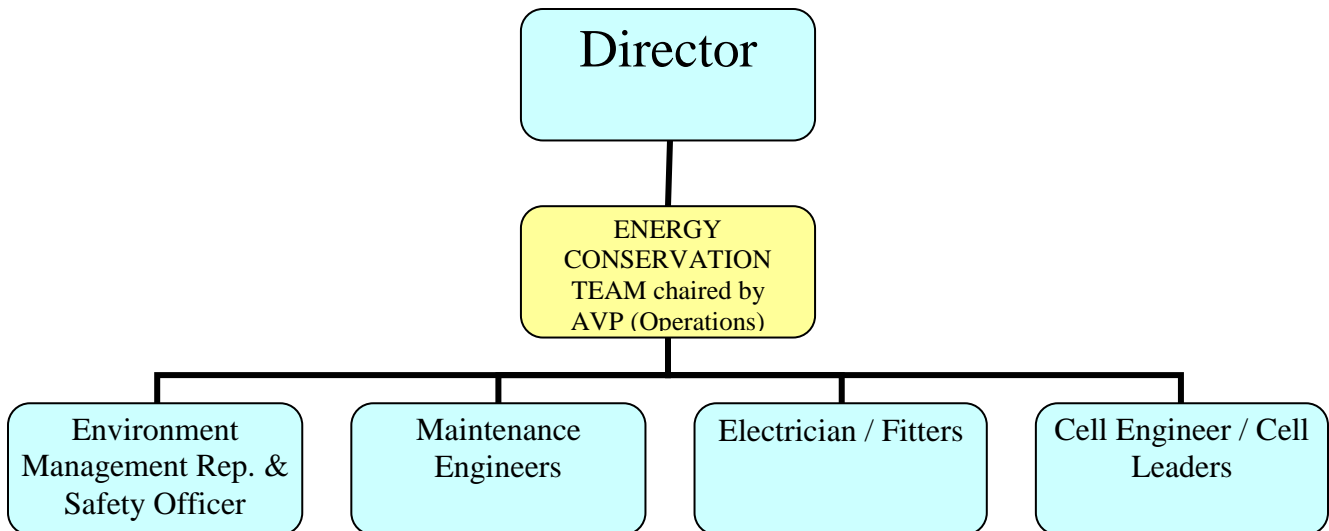
In this process, many initiatives like power generation thro' wind-mill, solar energy are under consideration. The TPM initiatives are helping us to march towards our objective.

Energy Conservation Policy

We , IP RINGS LTD, are committed to conserve our Electricity Consumption in all our activities through

- ❖ Selection of Energy Efficient Equipments
- ❖ Continuous improvements to reduce Specific Energy Consumption by atleast 10 % every year
- ❖ Increase the use of non-conventional sources of Energy
- ❖ Creating Energy Conservation awareness among employees

Energy Conservation Cell Structure



Energy Conservation Achievements

During the period between 2005 ~ 2008, IP Rings Ltd., has implemented around 34 proposals through Engineering initiatives, suggestion schemes, Auditors recommendations and TPM methodology resulting in a total savings of Rs.23 lakhs. This has resulted in a reduction of 28 % on the electrical energy consumption

In Aug-08, IP Rings has been awarded by CII as an 'Energy Efficient Unit'.

Please refer to the CD for the details of the Improvements

Energy Conservation Plans & Targets

Energy Conservation measures (Planned)	Anticipated Savings in	Rs. Lakhs	Approx. Investment (Rs. Lakhs)	Project Commencement	Completion year
	Energy Value (KWh)				
Reduce weight of Basket - 6 in HT furnace	2314	1.18	0.1	Jul-08	Aug-08
High Efficiency Fan for Scrubber	94118	4.8	3	Oct-08	Dec-08
Cogged V belt in place of V belt for all machine	13137	0.67	0.58	Oct-08	Nov-08
Replace 750W fan to 240W EE fan for man cooler	26471	1.35	1.2	Nov-08	Feb-08
Energy saver (210 V) for OCF lighting	7255	0.37	0.47	Sep-08	Nov-08
Minimize Radiation Loss in HT furnace	1569	0.8	1	Apr-08	Apr-08
VSD Compressor - Rings	98039	5.04	7	Apr-08	Jun-08
VSD Compressor - OCF	98039	5.04	7	Jan-08	Mar-08
Replace Brick insulation to Ceramic Fibre in HT furnace	34706	1.77	2.5	Feb-08	May-08
VFD for Motor - Plating Compressor	15686	0.8	1.4	Nov-08	Jan-08
HPMV 250W to MHL 150W for shop floor lighting	19608	1	2.1	Jul-08	Oct-08

Environment & Safety

Various initiatives on Safety Awareness including Safety Audit, Risk Analysis, Monitoring and Measurement, Health Check-ups of all employees.

SAFETY

Safety audits are being conducted by both external and internal parties in order to achieve and sustain zero accident. Periodic Health Check-ups like Audiometry tests, Dermatology tests are carried out for the operators. Special type of PPEs are given to the operators for the betterment of the Occupational hazard. Training programs like Awareness on Hygiene, Art of living are given to the operators. To move further, we have adopted Occupational Hazard and Safety Management [OHSAS 18001 Certification](#).

ENVIRONMENT

We have implemented various waste reduction activities and resource saving projects to sustain and maintain the ecological balance in and around our premises. We have planted 1000 trees and 1.5 acres of the lawn is developed in our factory premises to improve the greenery. We have been certified for [ISO 14001](#) for ensuring Environment Management Standards.