

HITACHI INDUSTRIAL UPS SYSTEM FOR PRINTING INDUSTRY / APPLICATIONS

ABOUT HITACHI INDUSTRIAL UPS SYSTEM

With a vision of “To be recognized as the most trusted Power Electronics Company by supplying superior products and services”, Hitachi Hi-Rel Power Electronics Private Limited has garnered a significant level of trust in Indian power electronics market segment wherein it serves the entire gamut of Industries.

UPS, an Uninterruptible Power Supply, also Uninterruptible Power Source, is an Electrical Apparatus that provides Emergency Power to a load when the Input Power Source, typically mains power, fails.

Hitachi Industrial UPS System, the flagship product, is regarded as the ultimate solution to power problems by providing both Uninterrupted Power Backup and Power Conditioning. It works as an exceptional safeguard against power disruption and reflects the industry's ultimate in advanced technology with proven track record in mission critical applications.

ABOUT PRINTING INDUSTRY / APPLICATIONS

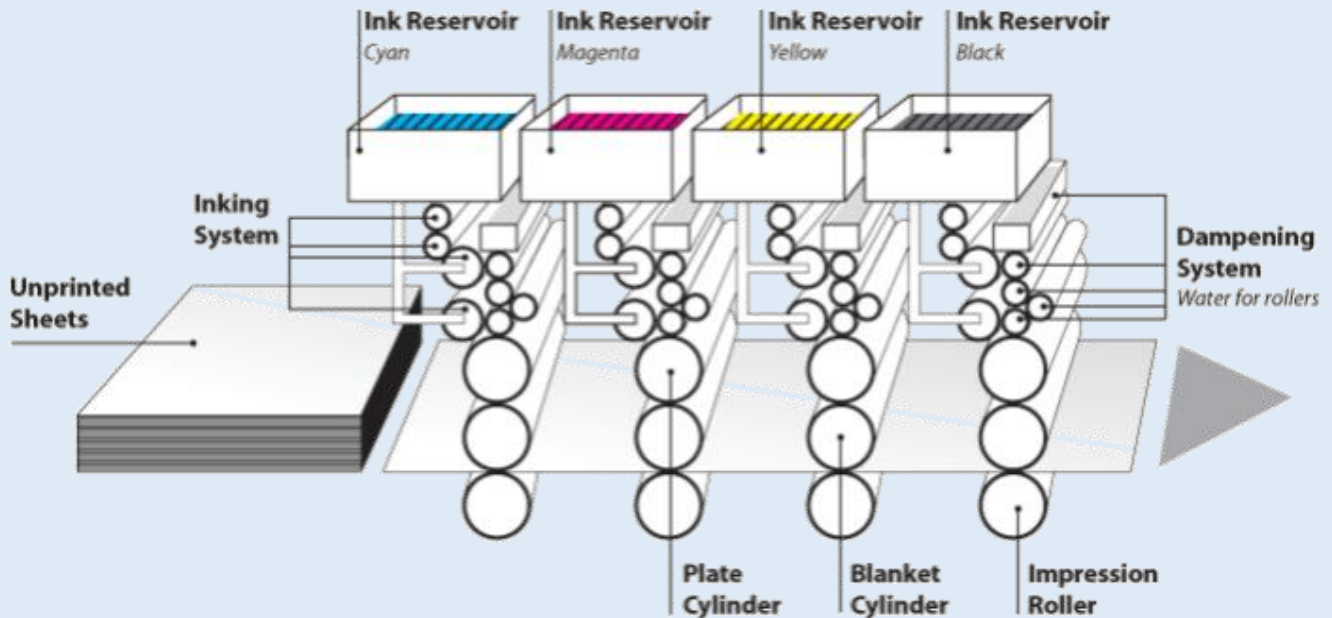
Printing industry is one of the world's leading industry. With the advent of exponential technologies, the print sectors have revolutionised the way things work, the printing sector has already moved from heavy machinery to more software-based businesses, with the use of newer technologies, digital printers and other platforms are together making a synapse to bring out the best printing solutions to the market.

There are different types of printing technology and machineries are used. This includes many processes: fabrication, cleaning, filling, sealing, combining, labelling, overwrapping, palletizing. Similarly, there are many printing machineries is used like, Digital Printers, Screen Printers, Embossing Machines, Flexographic Printing Machine, Letterpress Printing Machines, Offset Printers, Laser printers, Wireless Printers, 3D Printers, Thermographic Printers, Electrostatic Printing Machine, Pad Printers, Rotogravure Printing Machines etc.

The offset printing machines have been widely used in various applications. Because of its unparalleled quality to voluminous production and paper costs, it's by far the most dominant form of commercial printing technique, widely in use.

HITACHI INDUSTRIAL UPS SYSTEM FOR PRINTING INDUSTRY / APPLICATIONS

HITACHI
Inspire the Next



** Sheet-fed Offset Printing*

CHALLENGE/ISSUES (What are the issues the customer used to face?)

Offset machine users are normally located out site city those area having unstable voltage from grid power. If machine impacted with sudden power failure or voltage fluctuation, machine power cards get damage. Those machines have a high set up cost, single new machine with 8 colours touches cost around 15 to 20 crores.

Due to failure of card by unstable power at I/P at site, program which is being fed into computer system get reset due to power failure. Such failures and the breakdown of these machines bring the production lines to a direct standstill without any alternative to run the process and put the things back on the rails and ultimately user have to bear production/material losses.

Negative Business Consequences;

- Machine and its electric parts frailer / damage
- High maintenance and repair cost
- Production and material losses
- Ideal manpower
- Delay in commitment
- Customer losses
- Opportunity cost

NEED FOR THE SOLUTION (What is the need for utilizing Hitachi Product?)

- To stop the damage of the machine's sensors and electric cards which cause due to power fluctuation / frailer issues
- To stop manufacturing process interruption
- To stop losses of production, material and valuable time
- To stop losses the machine's program data due to power failure issues

HITACHI INDUSTRIAL UPS SYSTEM FOR PRINTING INDUSTRY / APPLICATIONS

HITACHI
Inspire the Next

HITACHI SOLUTION (How it helps in solving the Challenges/Issues?)

It's highly important to have uninterruptible power supply solution for the printing machines which normally provides the total protection to machines by providing constant and stable power with backup time to critical load.

Many a times, customers have installed the auto DG sets for entire printing plant, which starts within 30 to 40 seconds in the case of power interruptions or failure. But, on the contrary, customers need UPS system to provide the power backup for such continuous processes when mains inputs fail and auto DG switches ON.

These types of printing machines are expensive and cause financial losses if it's failed due to power problems. Here, Hitachi Industrial UPS System play the vital role to get the maximum out of these machines and reduce the payback period or bring down the cost of the operations by keeping the process running and breakdown expenses.

Industrial UPS System offers;

- Continuous and stable power to critical load against input voltage fluctuations without any interruptions, as long as the backup is required
- Stable voltage and frequency as per the requirement of machine, to protect its processors, PCBs and critical electrical components.
- Isolation between main supply and load
- Lesser machine repair cost
- Production growth and smoother operation
- Effective return on investment

BENEFITS OF USING HITACHI INDUSTRIAL UPS SYSTEM IN PRINTING INDUSTRY / APPLICATIONS

- Zero machine repairing cost which caused due to power fluctuation
- No more losses of Printing colour and paper
- Suitable for rugged usage
- Increase production efficiency
- Protect machine against the power fluctuation
- Low maintenance cost
- No more losses of programmed data
- No more raw material losses
- No more production losses
- No more ideal manpower
- Timely fulfilment of commitments
- Customer loyalty

HITACHI INDUSTRIAL UPS SYSTEM FOR PRINTING INDUSTRY / APPLICATIONS

HITACHI
Inspire the Next

HITACHI INDUSTRIAL UPS SYSTEMS FOR PRINTING INDUSTRY / APPLICATIONS

i6 UPS – Three Phase Output

Range: 10 kVA to 500 kVA

- Suitable for non AC environment (dust free)
- Digital Signal Processor (DSP) based control
- Input phase reversal protection
- In-built double wound isolation transformer
- Capable to withstand 100% unbalance load
- LCD display with keypad for fault diagnostic
- Bi-directional, 100% electronic static switch



i6et UPS – Three Phase Output

Range: 30 kVA to 500 kVA

- Highly efficient IGBT based rectifier and inverter
- High energy efficient product with in-built double wound isolation transformer
- 200% overload for 7 sec. (Specially design for motorised applications)
- Suitable for regenerative power
- Capacity enhancement possible up to 6 units
- Bi-directional, 100% electronic static switch
- User friendly HMI interface



ABOUT HITACHI HI-REL POWER ELECTRONICS PRIVATE LIMITED

Founded & established in 1983 as Hi-Rel Electronics Pvt. Ltd., which later on in year 2015 had become the 100% subsidiary company of Hitachi, Japan which is one of the Global fortune 500 companies with a new name as Hitachi Hi-Rel Power Electronics Private Limited, which is being recognized as one of the pioneers in power electronics domain. Hitachi Hi-Rel, today, is a leading manufacturer of Industrial UPS, IT & Infra UPS, Medium & Low Voltage Variable Frequency Drives, Grid Tied Solar Inverters, Air Compressors and Railway Inverters.

Hitachi Hi-Rel has state-of-the art manufacturing facility at Sanand near Ahmedabad in Gujarat-India. Hitachi Hi-Rel is helping a wide array of industries and organizations to meet the mission critical demands through technologically superior, low polluting and innovative products Solutions and continue to offer world class power electronics products, value added services & customized solutions.

With a vision of “To be recognized as the most trusted Power Electronics Company by supplying superior products and services”, Hitachi Hi-Rel has garnered a significant level of trust in Indian power electronics market segment wherein it serves the entire gamut of Industries, particularly in mission critical applications for Refineries, Petro-Chemicals, Power Generation, Steel & Metals, and Process Industries as well as Critical Data Processing Applications. Besides offering greater energy efficiency & lower carbon footprint, each of the company product streams bears the hallmark of excellence with company accreditations. Hitachi Hi-Rel is an ISO 9001:2015, ISO 14001:2015 & ISO 45001:2008 certified company having export house status. Hitachi Hi-Rel sales network & service infrastructure expands out to the world & with this network, we have made strong inroad in Global markets like South East Asia, Middle East, Africa and

HITACHI INDUSTRIAL UPS SYSTEM FOR PRINTING INDUSTRY / APPLICATIONS

HITACHI
Inspire the Next

Brazil. Also, with a presence of strategically located skilled service engineers in India helps us to score high in terms of customer expectations on service deliverables & uptime of the product.

With expertise, experience and an efficient product line, Hitachi Hi-Rel will always try to be your power electronics partner. When you choose to do business with Hitachi Hi-Rel, you are partnering with a company who cares.

FOR MORE INFORMATION

To know more about Hitachi Hi-Rel Power Electronics Private Limited and its offered products and solutions, please visit www.hitachi-hirel.com

You may also share your requirements at <https://www.hitachi-hirel.com/inquiry> to receive the phone call or Hitachi product information email from our authorized sales representative of your region.

© 2022 Hitachi Hi-Rel Power Electronics Private Limited.

All rights reserved. Information has been shared in good faith but is for general informational purposes only. No part of this document may be used, reproduced, photocopied, transmitted, or stored in any retrieval system of any nature, without the written permission of the copyright owner.

All the specifications in this document are subject to change without any prior notice.