

Investments  
for Growth

## A Success Story at YASH Highvoltage Ltd., India An Independent Bushing Manufacturer

**YASH Highvoltage**  
Transformer Bushing  
Manufacturing Unit Bay 2,  
Halol-Gujarat, India



Yash Highvoltage Ltd. (an ISO 9001 company) is an independent, indigenous manufacturer of niche condenser graded transformer bushings (for High Voltage and High Current applications).

The company is located in Western India near the city Vadodara, popularly known as a transformer hub with presence of major OEMs such as ABB, GE, Transformers & Rectifiers, TBEA, BTW, Schneider, Voltamp, and Atlanta, all located in the vicinity.

Since inception in 2002, YASH has emerged as one of the preferred solution providers catering to the upper segment of the power transformer industry (generation and transmission) globally.

Today, YASH is synonymous to a solution provider for all combinations of OIP/RIP/RIS bushings, whether in terms of the insulator material, or the standard.

A few of the innovative solutions include:

**High Current Bushings up to 25,000 Amperes** for generation station transformers\*

**High Voltage oil to air/air to air/oil to oil type OIP condenser bushings/wall bushings up to 170 kV\***

**High Voltage air to oil, dry type RIP & RIS condenser bushings up to 245 kV** (under equity partnership with MGC Moser Glaser – Switzerland)\*\*

**Highly customized and special bushings as retrofit & replacement for existing & old transformer bushings of any reputed global make**

\* External envelope available in Porcelain (Grey/Brown), or Polymer Silicone Grey, Standard: IEC 60137:2017/IEEE C57.19.00/01

\*\* External envelope available in Polymer Silicone Grey, Standard: IEC 60137:2017





*YASH made RIP bushings  
for 220 kV/66 kV transformer*

Today YASH is unanimously accepted across all major transmission/generation utilities, power producers, contractors and transformer OEMs in the global markets. The comprehensive product basket of OIP bushings and High Current Bushings has seen now a seasoned export reference to more than 35 countries over the past decade, including some noteworthy executions for discerning customers in USA, Italy, Australia, Korea, Brazil, Columbia, Mexico, Ecuador, Spain, Turkey, Bulgaria, Abu Dhabi, Saudi Arabia, Oman, Kuwait, Ghana, Congo, Bangladesh, Nepal, Tanzania, Taiwan, Israel and many more.

Global MNCs the likes of Siemens, GE, Hitachi-ABB, Toshiba, CG, Schneider, Hyundai, BTW, and many more are highly satisfied with the quality standard and industry best lead times offered by YASH.

In 2016, YASH charted new horizons by localizing the production of dry type-Resin Impregnated Paper (RIP) condenser bushings under technology from **Moser Glaser (MGC) – Switzerland (A Pfiffner-Group Company)**, and since have manufactured thousands of RIP bushings up to 145 kV, with recent addition of orders under execution for RIP/RIS bushings up to 245 kV.



*170 kV & 72.5 kV YASH OIP bushings.  
Transformer: Hyundai Heavy Industries.  
Site: Geothermal Power Plant – Turkey.*

MOSER GLASER are the pioneers of dry RIP technology operating since 1958, and are an established manufacturer of a product range up to 400 kV RIP bushings and RIP busbar systems, catering to global customers for decades. Headquartered at Basel Switzerland, Moser Glaser share with YASH several connections, as a technology partner and a principle, a supplier and most importantly a strong **Equity Partner**, adding immense value to the organization structure combining Swiss Engineering with Yash's ingenuity.

MOSER GLASER is a PFIFFNER GROUP company, a globally renowned manufacturer of niche Instrument transformers up to 550 kV. Headquartered in Hirschthal, Switzerland, they also have manufacturing units in Germany, Turkey, Brazil and most recently in Nashik, India for localized manufacture of instrument transformers up to 420 kV.



*The Board of Directors at YASH –  
Mr. Keyur Shah (Managing Director-YASH) and  
Mr. Oliver Haerdi (CEO - Moser Glaser, Director - YASH)*

From a manufacturing volume of less than 500 bushings annually in the year 2008, YASH has continuously expanded its state-of-the-art manufacturing facility and product range to reach a volume of more than **8,000 transformer bushings annually**, with the capability to serve major volumes, and the vision to aggressively expand its reach to serve all global customers. Several thousands of bushings supplied by YASH are performing successfully in domestic and global transmission grids for over a decade.



*Mr. Fritz Hunziker (Chairman at Pfiffner Group),  
Mr. Juergen Bernaur (Pfiffner Group CEO) and  
Mr. Keyur Shah (Managing Director of Yash Highvoltage Ltd.)  
at Gridtech Expo – 2019, Delhi – India*

### Solutions for the IEEE Market

With an offering of comprehensive range for IEEE style OIP condenser bushings from 25 kV up to 161 kV fully compliant to IEEE C57.19.00/01 standard, customers catering to the rapidly expanding power infrastructure demand in USA/Latin America market have come to appreciate supplies from an established global brand like YASH, which possesses the capability to offer interchangeable solutions.

Recent exports for the IEEE market include 34.5 kV 1200 A 534BCT OIP condenser bushings to a transformer customer in Korea, a prestigious end project in USA, as well as 69 kV 1200 A 534BCT OIP condenser bushings for a discerning transformer customer in Ecuador, again for transformer export to USA. The bushings are compatible and will be utilized for online monitoring by using a reputed European condition monitoring system by the end customer.

Recently, YASH executed a contract for a major thermal power generation plant in **USA** supplying 36 kV 16,000 Ampere High Current Bushings, in addition to several OIP bushings supplied to the Latin American region with support from The H-J Family of Companies.

Through our established bushing retrofit business, we exported a large shipment of YASH made 36 kV 16,000A High Current Bushings were also recently exported to **Turkey**, for replacing existing transformer bushings of another reputed global bushing supplier. The bushings were installed on 270 MVA Generator Transformers at a 2x660 MW thermal power plant in Turkey. The retrofit bushings were customized to meet the mounting and termination needs of the end user, and were executed in record lead times in-spite of pandemic related lockdown conditions with full satisfaction to the customer.

In 2020, YASH successfully executed High Voltage OIP bushings with polymer/silicone insulator for a renowned transformer OEM in **Italy**, for an AC project run by the utility **ENEL**, with many more projects in the pipeline for the Italian market.

### Recent Success Stories

The company is expanding rapidly across the globe through an established network of agents in several parts of the world and continues to explore strong agency partnerships. YASH holds a very special partnership with the renowned Missouri, USA-based company **The HJ Family of Companies**, a well-established group with a vast product range of IEEE style bushings for power distribution as well as many innovative products for transformers and accessories. H-J with their well-established local offices are aggressively promoting YASH products in several South American countries.



*69 kV 1250 A 584BCT OIP  
bushings as per IEEE standard,  
for export to Latin America*



36 kV 16 kA High Current Bushing exported to USA and Turkey

### Superior Capability for Product Development and Type Testing

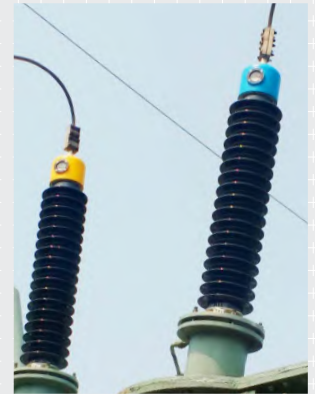
The critical operation requirements for transformer bushings also warrant an utmost attention to detail regarding quality and testing. One of the key strengths of YASH is its swiftness in product development and type testing. **The complete YASH range of bushings are type tested at ILAC accredited test laboratories, with more than 75 standardized model type tests readily available, which makes the acceptance process by users an extremely efficient one.**

Being an independent manufacturer solely focused on transformer bushings, YASH possesses the ability to offer flexible and highly customizable solutions to all customers alike. Whether the requirement is for a few bushings or for many, the lean and responsive team at YASH is able to respond with an equal conviction and attention while keeping costs well optimised to provide a niche competitive edge to customers.

50-year old 145 kV SRBP bushings replaced at site with interchangeable OIP solution, including special mounting and 600 mm BCT space



BEFORE



AFTER



This is probably a key reason why YASH has flourished not only as a supplier for large volumes of standard IEC/IEEE style bushings, but also as a solution provider for highly specialized repairs and replacements as well as retrofit solutions to old or existing transformer bushings, which may have developed deficiencies or damage over years of service or during transportation, handling or commissioning at site.

Guided by the team of highly experienced technical experts hailing from transformer bushing industry from Europe as well as India having a combined experience of 100+ years between them, as well as utility stalwarts in field of HV/EHV power substation and engineering design holding distinguished memberships at CIGRE and other notable national and international forums, the team of experienced and passionate engineers at YASH Highvoltage Ltd. leave nothing to chance right from the engineering and design stage till final execution.



36 kV 3150A OIP bushings with Polymer insulator for export to Italy, A/c. Project for ENEL utility



1500 kVp In-house impulse test lab



*One stop shop for High Current,  
High Voltage, OIP/RIP/RIS bushings,  
wall bushings*



*Enclosed, ambient controlled, dust  
free assembly areas for bushings*

### **State of the Art Infrastructure**

Yash has now entered into their 19th year since incorporation, and so have the matured and precise manufacturing methods reflected in the industry-best infrastructure. The factory owns world class equipment imported from Germany, Switzerland, USA, China and other parts of Europe to enable a facility which is second to none for bushing manufacture. The factory is at present under upgradation to enhance capacity for OIP condenser bushings, by installation of brand new SCADA controlled Autoclave system for OIP condenser cores processing, along with fully integrated oil storage & handling system and oil flooding system. The aggressive investments in manufacturing, testing infrastructure and new product range development have led to doubling of production quantities and global sales volumes in a short time frame of three years. Still the investment drive continues aggressively.

With a commitment to offer appropriate solutions to customers, while ensuring best value for money and a goal to provide competitive products and services on time, YASH is set to serve global customers for years to come.

#### **CONTACT:**

##### **Headquarters:**

Yash Highvoltage Ltd.  
P.O. Khakhariya,  
Halol Champaner Road,  
Tal. Savli, Dist. Vadodara,  
Gujarat 39150, India

##### **Primary Contact:**

Mr. Nirav Patel  
(Head-International Business)  
E: [nirav@yashhv.com](mailto:nirav@yashhv.com)  
Ph: +91 90990 82368

##### **Secondary Contact:**

[sales@yashhv.com](mailto:sales@yashhv.com)

##### **Website:**

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

