VENER 7
QUALITY·VALUE·SERVICE

D-U-N-S Number:
91-727-4685

CE

HINDUSTAN POWER PRODUCTS (P) LTD.

ISO 9001:2008 & ISO 14001:2004 Co.

Wherever you need power management

3 Decades of Power Management.

Hospitals • Institutions • Chemical/Cement/Textile Plants

Commercial Building & Complexes • Printing & Packaging Industries

International Star Award
for Quality - at Geneva

Company Overview

Hindustan Power Products (P) Ltd is a company that was incorporated in 1979 with the core business of manufacturing, supplying and exportation of products such as the Servo Voltage Stabilizer, electronic voltage stabilizer, digital voltage stabilizer, isolation transformer, distribution transformer and other power management products. We have a rich history spanning over 35 years in the manufacture of a host of power systems and the provision of power solutions designed to meet the specific needs of numerous customers.

We derive great pride and responsibility from being among the largest Indian exporters of this technology to the vast majority of countries in Asia, Africa and the Middle East. These exploits and more have led to the conferring of the coveted International Star Award for Quality on us at an event held in Geneva, Switzerland in 2005. Among our numerous achievements is the membership in the Dan & Bradstreet Global Database for which we bear the code D-U-N-S No. 91-727-4685 and also registered with the Engineering Export Promotion Council. We are professional in our conduct and abide by a strict code of ethical practices in all our dealings. We always supply an order on time and ensure that the products are of impeccable quality.

We are constantly reviewing our processes and product quality to keep in line with international standards and technological advancements. This is why our products are widely accepted by countless governments, laboratories, government departments, medical establishments, hospitals, educational entities and numerous commercial entities in India and the rest of the world. More than 1200 Stabilizers are being used in United Kingdom, United Arab Emirate, Belgium, Nepal, Bhutan, Saudi Arabia, Turkmenistan, Kenya, Nigeria, Uganda, Tanzania, Burundi, Ghana, Benin, Zambia, North Sudan, South Sudan, Ethiopia, Rwanda, Malawi and Democratic Republic of Congo.

What We Believe In

As an organization that is at the forefront in the production of power and safety equipment for the needs of industry, we are uncompromising when it comes to quality. We also believe in giving value to all our clients' purchases through lower prices, on-schedule deliveries and acceptable warranties. We have a long term vision in all the relationships we create and always nurture them with an atmosphere of trust.

Our Set-Up

We have a well-trained, experienced, and driven team of professionals who come together to create a very formidable team they are backed by a state of the art manufacturing plant and internationally recognized manufacturing processes. Some of the equipment that we utilize in our manufacture of power products includes high speed component insertion equipment, power analyzers, wave soldering lines, programmable power supplies and in-circuit testers All our products go through rigorous testing procedures before being certified as fit for the market. This is done to inspect aspects such as electricity consumption, durability, human safety, maintainability among many others.

Meeting Customer Expectations

The quality management implemented, since the existence of our company, has empowered us to offer high-test products, thereby creating a great number of satisfied customers. The company has developed in-house quality check laboratory, headed by an experienced team of engineers, who monitor the whole gamut of activities, ranging from sourcing of constituents, manufacturing process to clearance of final products. We perform a motley of test on Servo Voltage Stabilizers based on parameters such as operational safety, electricity consumption, performance efficiency, designing strength, service life and maintainability. Our rigorous quality test assures our product range of conformity with global quality standards.

Distribution Transformers

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Improved transformer technology, selected material grade and optimized designs result into reduced core and winding losses. The concept of transformer's evaluation on Total Owning Cost takes into account the initial cost visa-vis evaluated cost of losses occurring in the estimated transformer's life span. A well-conceived TOC evaluation will lead to prudent procurement of efficient transformers with low losses both in case of (no-load or excitation) and copper losses (load losses). Efficiency gains occur in better grade of silicon steel core and more copper by reducing both the losses.

Winding

Paper insulated round/rectangular soft drawn electrolytic copper conductors are used to make various types of windings. Trans-positioned multiple conductors are used to ensure uniform current distribution & reduce eddy currents. Completed winding coil is processed in well ventilated electrically heated oven prior to oil impregnation.

Core

Constructed of Cold rolled, grain oriented silicon steel low watt loss Laminations & high saturation limits. Inter leaved core construction having mitered joints are build using special fixtures to achieve highest stacking factor, reduced loss & vibration noise level. Legs and yokes are braced by means of epoxy resin impregnated fiber tapes. Adequate longitudinal cooling ducts provided to eliminate hot spots without effecting uniform flux distribution throughout the magnetic and electric circuits.

Assembly

All coils are assembled together on the core limb. The core & coil assembly is rigidly supported & clamped by fabricated end frame parts. Coils are firmly clamped by un-impregnated high density laminated wood rings mounted on the top of each limb winding assembly to with stand high axial short circuit forces.

Bushing

Porcelain type bushing for High Voltage & Current

Tank

Built with high grade H.R. Steel adequately stiffened to withstand vacuum &high Pressure.

Tap Changing Gears

On load tap changer or off circuit tap switch with manual or motorized electronic controls to take care of voltage fluctuations. Optional RTCC with AVR for remote operations.

Conservator

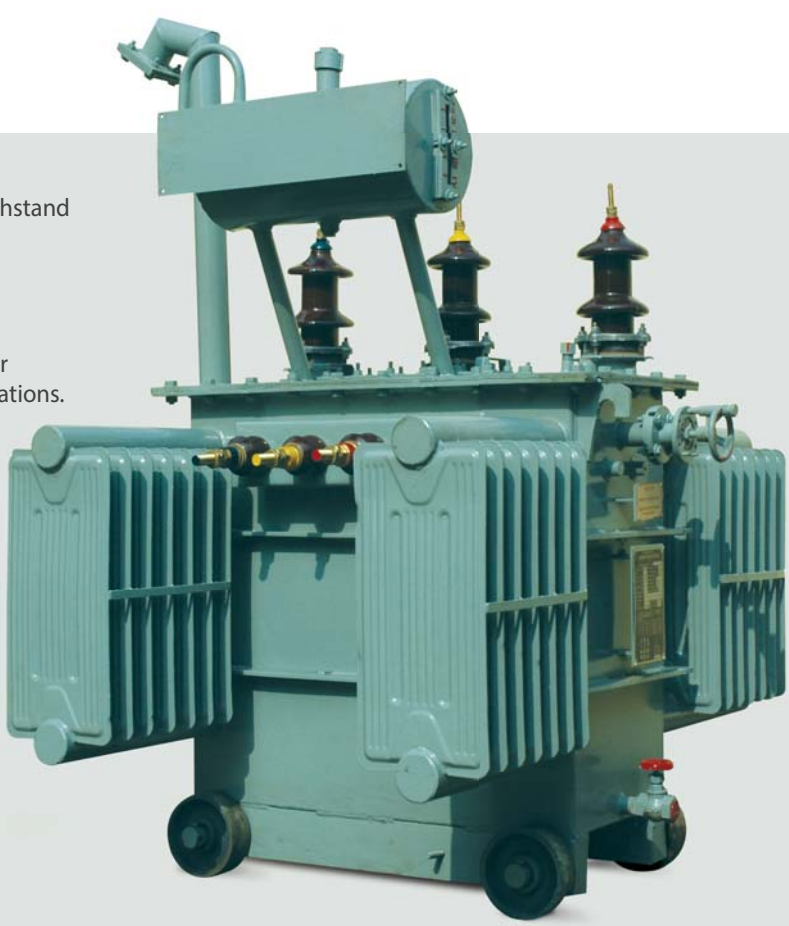
Provided for oil expansion & contraction with oil level indicators to monitor Min/Max oil levels.

Cooling

Normally provided with ONAN System, optional indented systems are ONAF, OFAF OR OFWF.

Protections

WTI, OTI, MOG, GOR (BR, OSR) with alarm and trip contact to protect against external short circuit and earth fault.



Servo Voltage Stabilizer / Automatic Voltage Regulator

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AC mains voltage fluctuations can cause equipment to behave erratically and malfunction. Some systems may even break down due to these fluctuations, noise or spikes. Computers, Office Equipment, Telecom Equipment, Industrial Control Systems, as well as many other key applications and services are totally dependent on the quality of the power which feeds them. This is why power protection systems from Hindustan Power Products (P) Ltd. are today, in many areas of our life, considered absolutely essential.

A "VENER7" Automatic Voltage Regulator / Servo Voltage Stabilizer reduce your energy usage by optimizing the electric supply voltage; significantly reducing your ongoing energy costs and greatly assisting in the quest for reducing your carbon footprint. The team at HPPL will offer genuine, unbiased advice when all the options are available in every degree of sophistication from simple voltage compensation to a complete protection. The widest voltage stabilizer choice, plus rich 35 year experience of the company that has been leading it's field from day one will help you cut energy cost by up to 20%, paying only for the actual energy usage and also ensuring we do our bit for the Environment.

Three Phase Air-Cooled Stabilizer

CE

Input Voltage Range	: 340-460, 320-460, 300-460, 280-460, 260-460 & 240-460 or custom built
Output Voltage	: As per requirement 380 / 400 / 415 Volts
Line & Load regulation	: +/- 1%
Frequency	: 47-63Hz
Duty Cycle	: Continuous 24x7
Cooling	: Air Cooled Natural / Forced
Waveform Distortion	: Nil
Response Time	: Less than 10ms
Correction Speed	: Upto 70 Volts / Seconds (Depends on input voltage and capacity)
Suitability	: All power factor loads
Installation	: Indoor type or Outdoor type
Degree of Protection	: IP-30 to IP 55
Type & Suitability	: All the three phases will be corrected independently. : Balanced or 100% Unbalanced Supply : Balanced or 100% Unbalanced Load.
Input / Output Termination	: On Terminal Strip / Brass Studs / Copper Bus Bar
Winding & Wiring Material	: Copper EC grade (99.9% Pure)
Applicable Standard	: IS 9815
CE Conformity	: EN61558-1:2005 + A1:2009

Features

Designed manufactured and supplied to comply with leading international standard & CE Conformity

- Automatic Voltage Regulation Step less automated voltage regulation ideal for 95% of all applications
- Wide Range of Power Ratings Three phase 10kVA to 500kVA
- High Efficiency Better than 98% - 99% for low running costs
- Precise Output Voltage Regulation Output Voltage Accuracy +/- 0.5% / +/- 1%
- Independent Phase Balancing & Control Independent phase voltage sensing and control to ensure the individual phase voltages remain stable regardless of supply and load unbalancing
- Inbuilt High Overload Capability Ideal for loads with an inherent initial high Current draw on start up
- Transient Voltage Surge Suppression TVSS – Protects load against harmful high- energy surges transients and spikes.
- Over / Low Voltage Alarm Front Panel status alarm in the event that the voltage supply goes outside voltage window of the Stabilizer.

Optional Accessories

- Bypass Control Switch Manual / Electronic controls bypass facility. Full Manual Maintenance Bypass Switch.
- Input Circuit Breaker. Output Circuit Breaker Over / Low Voltage Protection Phase Failure Protection.
- Lightning Surge Protection. Protection against extremely high voltage surges and transients caused by lightning Strikes on the supply line
- Digital Power Metering (With RS-485 Interface option)
- No Volt Remote Monitoring Contacts Delivering basic operational system status Information for use by remote monitoring / Building management systems
- Soft-Switch On / Start Up Load Protection from momentary Over voltage situations on start up

Applications

- Information Technology
- Process Control Equipment, PLC and CNC Machine
- All Electrical / Electronic Equipment
- Medical Equipment , CT, CAT scan, X-Ray machines, Physiotherapy & Operation Theatre
- Data Processing Equipment (Computers) Air Conditioning
- Commercial Building & Complexes
- Communication & Broadcasting Equipment
- Jewellery Showroom
- Automobile Showroom
- Hotels & Restaurants
- College / School / Educational Institute
- Hospital / Clinic / Nursing Home
- Bank / ATM / Airport / Embassies
- Theaters / Museums / Labs

Servo Voltage Stabilizer / Automatic Voltage Regulator

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Three phase 30kVA to 3000kVA

Three Phase Oil-Cooled Stabilizer

CE

Input Voltage Range	: 340-460, 320-460, 300-460, 280-460, 260-460 & 240-460 or custom built
Output Voltage	: As per requirement 380 or 400 or 415V
Line & Load regulation	: +/- 1%
Frequency	: 47-63Hz,
Duty Cycle	: Continuous 24x7
Waveform Distortion	: Nil
Response Time	: Less than 10ms
Correction Speed	: Upto 70 Volts / Seconds (Depends on input voltage and capacity)
Suitability	: Suitable for all power factor loads
Cooling	: Oil Cooled
Additional Facility	: Manual Operation
Installation	: Indoor type or Outdoor type
Degree of Protection	: IP-30 to IP 55
Type & Suitability	: All the three phases will be corrected independently. : Balanced or 100% Unbalanced Supply : Balanced or 100% Unbalanced Load.
Input / Output Termination	: On Copper Bus Bar
Winding & Wiring Material	: Copper EC grade (99.9% Pure)
Applicable Standard	: IS 9815
CE Conformity	: EN61558-1:2005 + A1:2009

Features

Designed manufactured and supplied to Comply with leading international standard & CE Conformity

- Automatic Voltage Regulation Step less automated voltage regulation ideal for 95% of all application
- Wide Range of Power Ratings Three phase 30kVA to 3000kVA
- High Efficiency Better than 98%-99% for low running costs
- Precise Output Voltage Regulation Output Voltage Accuracy +/- 0.5% / +/- 1%
- Independent Phase Balancing & Control Independent phase voltage sensing and control to ensure the individual phase voltages remain stable regardless of supply and load unbalancing
- Inbuilt High Overload Capability Ideal for loads with an inherent initial high Current draw on start up
- Over / Low Voltage Alarm Front Panel status alarm in the event that the voltage supply goes outside voltage window of the Stabilizer.

Optional Accessories

- Bypass Control Switch Manual / Electronic controls. Full Manual Maintenance Bypass Switch.
- Input Circuit Breaker. Output Circuit Breaker Over / Low Voltage Protection Phase Failure Protection.
- Protection against extremely high voltage surges and transients caused by lightning Strikes on the supply line
- Digital Power Metering (With RS-485 Interface option)
- No Volt Remote Monitoring Contacts Delivering basic operational system status Information for use by remote monitoring / Building management systems

Applications

- Factories
- Construction sites / Tunnels
- Railway Electrifications / Railway Stations
- Airports / Airport Lightings / Mills / Cement Plants / Textile Industries
- Refineries / Cold Storages / Air Conditioning
- Commercial Building & Complexes
- Plastic Industries / Large Workshops / Automobile workshops
- Jewellery Showrooms / Automobile Showrooms
- Printing & Packaging Industries
- Hotels & Restaurants
- College / School / Educational Institute
- Hospital / Nursing Home
- Bank / Embassies / Farm Houses
- Theatres / Museums / Labs

Single Phase Voltage Stabilizer

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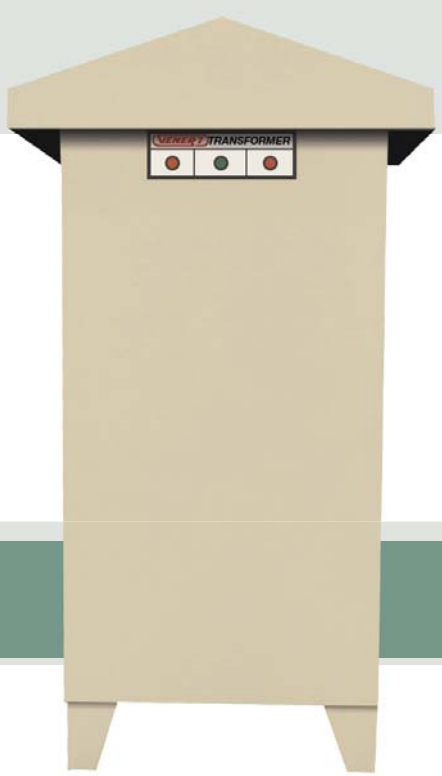
Rating	: 5 kVA to 75 kVA
Input Voltage Range	: 140-270, 150-270, 160-270, 180-270 or custom built
Over-Load Capability	: up to 200% momentarily
Output Voltage	: Standard 220 / 230 / 240 Volts or as per customer requirement
Line & Load regulation	: +/- 1%
Duty Cycle	: Continuous 24x7
Wave Form Distortion	: Nil true to input
Response Time	: Less than 10ms
Correction Speed	: Up to 70V per sec. (Depend on Input Voltage range & capacity)
Correction Method	: Step-Less correction using Variable Auto Transformer
Suitability	: Suitable for all power factor loads
Cooling	: Natural Air Cooled / Forced Air Cooled / Oil Cooled
Class of Insulation	: Available in A/B/F/H Class
No Load Loss	: Less than 0.4 %
Efficiency	: 97 % to 99% (Depend on Input Voltage range & capacity)
Ambient Temperature	: Wide ambient temperature operation from –20° C to 45° C.
Winding & Wiring Material	: Copper EC grade (99.9% Pure)
Input / Output Termination	: Connectors/Copper Bus Bar
Installation	: Indoor & Out door type
Degree of Protection	: IP - 30 to IP - 55

Optional Features & Protections

- Overload Cut-Off and Short Circuit Protection.
- Low / High Voltage (out of input range) Alarm and / or Cut-Off.
- High Temperature Alarm and / or Cut-Off.
- Spike and surge protection
- Ammeter, Temperature Meter, Digital Ammeter, Digital Voltmeter.
- Stabilizer By Pass System
- Remote control of stabilizer (with wires)



Isolation Transformer / Ultra Isolation Transformer

Isolation Transformer / Ultra Isolation Transformer is a transformer used to transfer electrical power from a source of alternating current (AC) power to some equipment or device while isolating the powered device from the power source, usually for safety. These types of three phase power Isolation transformers provide galvanic isolation and are used to protect against electric shock, to suppress electrical noise in sensitive devices, or to transfer power between two circuits which must not be connected together.

Suitably designed ultra-isolation transformers block interference caused by ground loops. Power transformers with electrostatic shields are used for power supplies for sensitive equipment such as computers or laboratory instruments.

This is because the windings are insulated from each other. In an isolation transformer the output winding will be isolated, or floating from earth ground unless bonded at the time of installation. Secondary neutral to ground bonding virtually eliminates common mode noise, providing an isolated neutral-ground reference for sensitive equipment and an inexpensive alternative to the installation of dedicated circuits and site electrical upgrades.

"VENER7" power Line Noise Isolatoris an isolation transformer which prevents passage of line voltage transient, spikes and galvanic leakages from reaching sensitive or critical equipment like Computers & its peripherals, Medical Instrumentation, Digital communication and Telemetry systems etc.

VENER7 power Line Noise Isolator range employs a unique multiple shielding technique that reduce the interwinding capacitance to below 0.001 pf and DC Isolation to over 500M ohms. Attenuation of common mode noise is about 100dB. Regulation at 400 or 415V AC is about 4 %.

Isolation Transformer

Rating	: 3 Phase
Input Voltage	: 400V + 10%, 50Hz, 3 Phase, 4 Wire AC
Output Voltage	: 400V + 10%, 50Hz, 3 Phase, 4 Wire AC
Transformer Ratio	: 1:1
Regulation	: + / - 4%
Coupling Capacitance	: Less than 0.001PF
DC Insulation Resistance	: >500 Mega Ohm at 500V DC
Common Mode Noise	: Approx. 100dB
Breakdown Voltage	: 2kV AC (rms) for 1 Minute
Suitability	: Suitable for all power factor loads
Cooling	: Natural Air Cooled / Oil Cooled
Duty Cycle	: Continuous 24x7
Installation	: Indoor / Outdoor
Degree of Protection	: IP – 30 to IP - 55
No Load Loss	: Less than 0.5%
Efficiency	: 96 to 98 %.
Winding & Wiring Material	: Copper EC grade (99.9% Pure)
Transformer	: Heavy duty Copper Wound Transformer.
Input / Output Termination	: On Brass studs / Connectors / Copper Bus Bar.
Insulation Class	: Available in A/B/F/H Class
Line Frequency	: 47 to 63 Hz
Working Temperature	: 0°C to 50°
Over-Load Capacity	: 200% Momentarily

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Features

- No Waveform Distortion
- Front Access for Installation and Servicing
- Very High Common Mode Noise Rejection
- Compact Size and Rugged Construction
- Suitable for Continuous Operation in Hostile Conditions

Step up / Step down Transformers

The basic function of any transformer is to stepping up or stepping down voltage as required. Objective of Step up / Step down Transformers is to make supply voltage compatible with varied working appliances. If the required voltage is lower than supply voltage then its work as step down transformer. If required voltage is higher than supply voltage then its works as a step up transformer. Transformer ratings always consider in KVA. The ratings are depends on input & output voltages & current delivered by the unit. We offer high quality Step up / Step down Transformers. Our Transformers are relatively simple in design and they have the exact ratio of windings in each circuit so as to deliver the appropriate current and voltage. Application must be considered before installing a particular transformer. Both incoming and outgoing voltages must be known prior to selecting any Step up / Step down Transformer.

The features offered by our Step up and Step down Transformers include -

- Shock absorbent
- High Energy Saver
- Voltage optimizers
- Cost effective
- Withstanding high temperature and heat
- Low maintenance costs

Capacity : 15 kva to 3000 Kva
Cooling : Air cooled/Oil cooled
Voltages : 400/200, 230/ 115 or custom built

Further, we also give custom solutions based on clients' demand. Our products are customized or modified according to your industry standards to improve overall efficiency and accuracy. Our customized solutions not only save power but provide longevity to the equipment's.

Some of our Prestigious Clients

ABN-AMRO BANK	ALL INDIA INSTITUTE OF MEDICAL SCIENCES (AIIMS)	AMERICAN EMBASSY	AMTEK AUTO LTD.	ANSALS BUILDWELL
APOLLO HOSPITAL	BANK NATIONALE DE PARIS	BANK OF TOKYO & MITSUBISHI	BERGER PAINTS	Bharat Heavy Electricals Limited
BHARTI AIRTEL LTD.	BMW	BRIDESTONE - TVS	BUREAU VERITAS	CANADIAN HIGH COMMISSION
ELECTRONICS CORPORATION OF INDIA (ECIL)	ENGINEERS INDIA LIMITED-EIL	WORLD BANK	TIMES OF INDIA	THE HINDUSTAN TIMES
TATA ENERGY RESEARCH INSTITUTE (T.E.R.I)	TAJ GROUP OF HOTELS	L.G ELECTRONICS INDIA LTD.	ITC Limited	SIEMENS
INDIAN INSTITUTE OF TECHNOLOGY (I.I.T)	IBM GLOBAL SERVICES	STEEL AUTHORITY OF INDIA LTD. SAIL	NESTLE (INDIA)	HINDUSTAN PETROLIUM CORN. LTD (HPCL)
SAMSUNG INDIA	RELIANCE INDUSTRIES LTD.	K.F.C.	PHILIPS INDIA	SURYA ROSHNI

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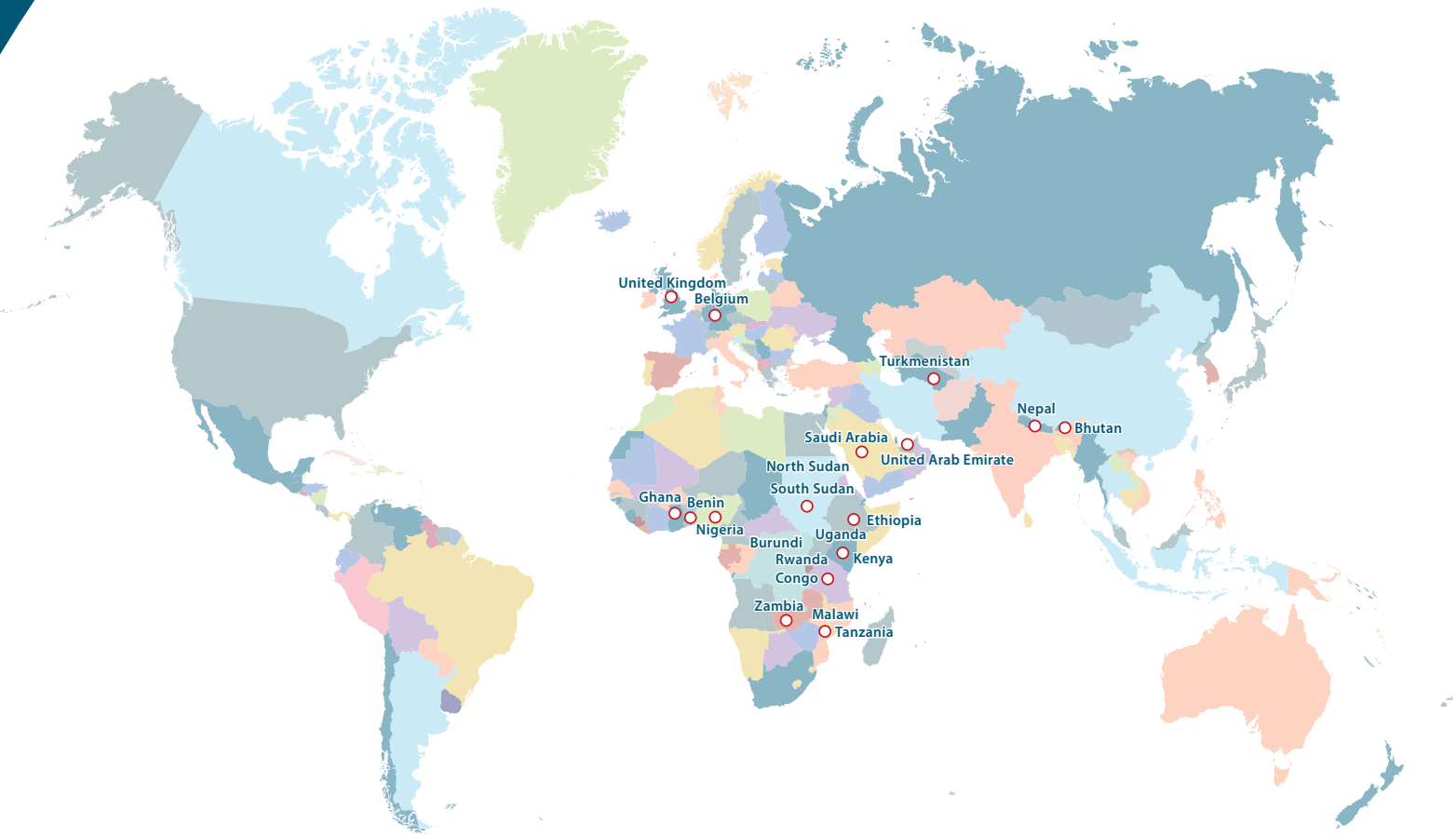
And many more...

Exported to more than 20 Countries



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Note: Due to new innovations and improvements, sizes and technical specifications are subject to change.