Company Profile

REO GPD INDUCTIVE COMPONENTS PVT. LTD.

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Phone No:- 02662-221723 0265-2396148 Fax:- 0265-2396971 E-Mail:- info@reogpd.com Web site:- www.reogpd.com
REO-GPD Inductive components Pvt. Ltd. was established in January 2010 as Joint Venture Company. REO GPD Inductive components Pvt. Ltd. will manufacture all types of transformers up to 300 KVA and air core and iron core inductors up to 4000Amp, used in industries such as Windmill, Solar, Transport, Drives, UPS and Power Conditioning.

- **REO Inductive Components AG** is 90 years old German company involved in manufacturing and supplying special purpose transformers and inductors all over the world. They have manufacturing units in Germany, China, USA, Russia and now in India.

- **Gujarat Plug-in Devices Pvt. Ltd.** is part of a group since past 40 years, involved in manufacturing transformers and inductors approved by almost all reputed government organizations in India such as EIL, PGCIL, IOCL, NTPC, C-DAC, BHEL, ONGC and multinationals like Siemens, L&T, Schneider, ABB, Bombardier etc. GPD is ISO 9001:2008 certified Company. GPD has got CE and UL approved range of Transformers and Inductors.

- **Organization :- REO-GPD** is supported by above mentioned two organizations for all technical and process matters. REO-GPD has got qualified experienced engineers and experienced Managerial staff to take care of manufacturing and quality assurance. It has got workforce of 15 workers.
REO GPD PRODUCT RANGE

1. Products which we can offer............

OUR PRODUCTS CAN BROADLY BE DIVIDED INTO THE FOLLOWING SEGMENTS:

• Special Magnetics for High Frequency applications such as Railways, Solar, Wind, Drive & UPS.
• Power Quality Improvement Products.... Such as Input Choke, EMC filters, Output Choke, Sinus Filters, Detuned Reactors for APFC Panels.
• Accessories for Drive/UPS like Dynamic Braking resistors, Hall effect CTs.
• Controllers for material Handling equipments, suitable for Food, Pharma, cosmatics, Automobiles etc.
# REO GPD PRODUCTS AT A GLANCE – Inductive & Resistive

<table>
<thead>
<tr>
<th>PRODUCTS: Application Areas/ Industry segment</th>
<th>EMC Filter / Mains Filter</th>
<th>Input Choke / mains Choke</th>
<th>DC Link Choke</th>
<th>Output Choke</th>
<th>Sinus Filter</th>
<th>Detuned Reactors</th>
<th>Hall Effect CTs (AC/DC Current transducer)</th>
<th>Brake Resistors</th>
<th>Special Transformers &amp; Inductors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Used -- why?</td>
<td>To suppress RFI Noise</td>
<td>To reduce the commutation losses and harmonics; very robust and good heat dissipation</td>
<td>Used when DC BUS voltage is changed (Boost/Buck)</td>
<td>Reduce the voltage levels and rate, this provides reduced motor noise and power smoothing - The units are quiet and also suitable for long motor leads and suitable for use in harsh environments</td>
<td>to transform the inverter output current and voltage waveforms into a smooth sine wave to reduce radio interference, harmonics and spikes</td>
<td>A detuned filter works on the principle of providing capacitive KVAR output at the fundamental frequency but avoids resonance phenomena by by offering an inductive impedance to specified harmonic frequencies. It is used where harmonic disturbances are more than 20%, in suitable design for AC/DC measurements up to 150 kHz in all applications, distinguished by short response times and excellent linearity.</td>
<td>For the frequent start stop applications, the extra energy has to be burnt in to a resistive load: as feeding the energy back to mains requires sophisticated inverter bridge with 12 power devices. Usual practice use 6 devices for a 3 phase application.)</td>
<td>All the Industries requiring special purpose High frequency Inductive components such as dv/dt chokes, Tuned filter chokes, LC/LCL filters, For SMPS type applications using Amorphos cores or Ferrite cores.</td>
<td></td>
</tr>
</tbody>
</table>

### Finds application in market segments

- Railway tech
  - •
- Solar
  - •
- Wind
  - •
- UPS
  - •
- VFD / VFD Panel
  - •
- APFC Panel
  - •
REO Air-cored mains choke
- Designed for use in the DC voltage supply for electric trains.
- The special construction provides effective air-cooling and hence efficient operation even under extreme conditions.

REO High-current filter
- Provides a high level of attenuation and can be used to suppress interference from frequency-inverters with higher power ratings.

REO 3-phase inverter transformer
- Used with an auxiliary inverter to provide galvanic separation from the dc-link voltage of up to 2000 V DC. Vacuum impregnation and a special housing provide external protection.

Efficient Components For Railway Technology
System Solutions for Variable Speed Drives

1-Ph DC Link Choke (Series CNW 890)
- For smoothing the intermediate circuit current and for reduction of mains interference with voltage intermediate circuit inverters, improvement of efficiency of inverter, (passive Power Factor Correction). Damping of load current...
- Customised solution of all products can be provided
Max. 100 A*

3-Ph Line Motor Chokes (Series CNW 850/880/854)
- Use with variable speed drives. Available in the range 8 A to 1200 A.
- Designed to improve waveform of applied voltage to improve motor life
- Customised solution of all products can be provided
Max. 1200 A*

3-Ph Line Reactors (Series CNW 900)
- Available with 2 % voltage drop at rated current (Range 3 A -1200 A).
- Used to reduce the input harmonics of variable speed drives in applications where a 4% drop in line voltage is not desirable.
- Customised solution of all products can be provided
Max. 1200 A*

* Higher rating on request
**Lighting Transformers**
- Range: 25 KVA – 1000 KVA
- Air Cooled / Force Cooled
- Insulation class - F / H
- With Enclosure / without Enclosure (Upto IP 65)
- Customised solution of all products can be provided

**Control Transformers**
- Range: 100 VA – 40 KVA
- 1-Ph / 3-Ph / 3-1 Ph
- Air Cooled / Force Cooled
- Insulation class - F / H
- With Enclosure / without Enclosure (Upto IP 65)
- Customised solution of all products can be provided
• EMC Filters (Ferrite Chokes)
BRAKE RESISTOR

Damping Resistor for Train Technology
Continuous rating: 60KW max.*
Protection class: up to IP67
Series: NTT R 159

Compact Power Braking Resistor combination
Continuous rating: 30KW max.*
Protection class: up to IP67
Series: BW 155
* Higher rating on request

Hall effect CTs
for measuring AC/DC Current with Isolation- Very fast response
Range: 1 Amp to 2000 Amps
## REO GPD PRODUCTS – Material Handling Industry – Electronic Controllers for Vibratory Feeders

<table>
<thead>
<tr>
<th>Controller models</th>
<th>Current Capacity</th>
<th>Ingress Protection</th>
<th>Frequency output</th>
<th>Phase control</th>
<th>Potentiometer</th>
<th>Enable</th>
<th>Soft start</th>
<th>0-10 V DC</th>
<th>4-20 mA</th>
<th>Profibus Control</th>
<th>Frequency Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>REOVIB 033</td>
<td>6 Amps</td>
<td>IP 00/IP 20/IP 42</td>
<td>50/100 Hz</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>REOVIB 6024</td>
<td>6 Amps</td>
<td>IP 00/IP 20/IP 54</td>
<td>50/100 Hz</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>REOVIB 514</td>
<td>6 Amps</td>
<td>IP 20</td>
<td>50/100 Hz</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Unicorn Controller</td>
<td>15 Amps</td>
<td>IP 54</td>
<td>50/100 Hz</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>MFS 168</td>
<td>3/6/8 Amps</td>
<td>IP 20/IP 54</td>
<td>30 TO 140 Hz</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>MFS 268</td>
<td>3/6/8/12 Amps</td>
<td>IP 20/IP 54</td>
<td>5 TO 150 Hz</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Some Important Nomenclature:

1. **Enable**: A digital signal to control the feeder on/off
2. **Soft Start**: For smooth / jerk free start and stop
3. **0-10V DC**: An analog signal from PLC to adjust the feeder speed. E.g. 100% is max and 60% is proportionately 60% of maximum.
4. **4-20mA**: In industrial environments, with long leads, there will be signal transmission without resistive drop.
5. **Profibus**: Digital bus control to simultaneously controlling many controllers from a central computer.
6. **Phase/Frequency control**: Phase controllers are cheaper SCR based controllers, whereas Frequency controllers use IGBT and are similar to VFDs.
Phase angle controllers

REOVIB 033

REOVIB 6024 Family

REOVIB SMART & R6 539 series

Phase Angle methodology
Frequency controllers for vibratory feeders

MFS 168/268 series available in IP 20 and IP54
- **Accelerometers for vibratory feeders**
  (Available 300mV/g to 600mV/g)

- **Service unit for vibratory feeders**
  MFS 6050 with Accelerometer
  12 Amp Frequency Controller
Calibration Units for OEMs with Calibrated probes

SWM 3000

Measures:
- Acceleration
- Speed
- Deflection
- Mechanical Frequency
MANUFACTURING FACILITIES
The total built up area - 10,000 square feet.
Excellent Manufacturing and Material Handling Facility.
Latest state of Art Testing Facility.
All the systems are well defined

- Office Area – 1000 Sq Ft
- Testing Area – 1500 Sq Ft
- Production Area – 5000 Sq Ft
- Varnishing Facility – 1000 Sq Ft
- Store – 1000 Sq Ft
- Loading/Unloading Area -500 Sq Ft
- Total Factory Area – 35000 Sq Ft
**WINDING FACILITIES**

**Broomfield - 500**
CNC winding machine can wind Foil/Strip (Multiple) coil up to
- 1000 MM length,
- 1500 Dia. Meter
- 300 kg Weight.

**TRISHUL - 600**
CNC winding machine can wind wire coil
- 500 MM length,
- 500 Dia. Meter
- 150 kg Weight.
ACME (CNC Winding Machine)
Can wind Foil/Strip/Wire coil up to
- 500mm length,
- 500mm Diameter
- 50kg weight

Edgewise winding Machines)
Can wind Strip coil up to
- 1500mm length,
- 00mm Diameter
- 500kg weight

Custom Build Winding Machine
Can wind Strip coil up to
- 800mm length,
- 500mm Diameter
- 250kg weight
ASSEMBLY AREA
Vacuum plant suitable for transformer Size upto
- Length - 1500MM
- Width - 600 MM
- Height - 1500MM

- SS varnish storage tank suitable for storing 1200 liters varnish at controlled temperature.

- Oven 1- can provide heating up to 250 c. The complete heating cycle can be programmed through logic controller.
  Size- L-1300mm B-1300mm H-1300mm

- Oven 2- can provide heating up to 250 c. The complete heating cycle can be programmed through logic controller.
  Size- L-600mm B-600mm H-600mm
TESTING

FACILITIES
# THREE PHASE AC/DC TESTING BENCH
(Made in Germany)

**TYPE :- REOLAB 300/86.7KVA / 80.4KW**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>POWER SUPPLY UNITS</th>
<th>PRODUCT TO BE TESTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3x 400VAC, 3x100A, 69.0 KVA</td>
<td>Regenerative Filter, EMC Filter</td>
</tr>
<tr>
<td>2</td>
<td>0.. 540VDC, 120Amp, 64.8 KW</td>
<td>DC- Choke, FMC Filter</td>
</tr>
<tr>
<td>3</td>
<td>3x 340VAC, 3x100A, 58.8 KVA</td>
<td>Inductor (High Frequency Testing)</td>
</tr>
<tr>
<td>4</td>
<td>3x 500VAC, 3x100A, 86.7 KVA</td>
<td>Transformer, Filter Choke</td>
</tr>
<tr>
<td>5</td>
<td>0.. 670VDC, 120Amp, 80.4 KW</td>
<td>DC Choke</td>
</tr>
</tbody>
</table>
### THREE PHASE AC TESTING BENCH

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>POWER SUPPLY UNITS</th>
<th>PRODUCT TO BE TESTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3 x 830VAC, 3 x 25A, 35 kVA</td>
<td>Transformer, Inductor</td>
</tr>
<tr>
<td>2</td>
<td>3 x 470VAC, 3 x 50A, 40 kVA</td>
<td>Transformer, Inductor</td>
</tr>
<tr>
<td>3</td>
<td>3x 35VAC, 3x 600A, 35 kVA</td>
<td>Transformer, Inductor</td>
</tr>
</tbody>
</table>
1-ε SOURCE TRANSFORMER FOR TEMPERATURE RISE TEST (Made in Germany)

<table>
<thead>
<tr>
<th>Type</th>
<th>REOLAB 100-40KVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mains</td>
<td>3 x 400 V (+/-10%), 50/60 Hz</td>
</tr>
<tr>
<td>Output</td>
<td>0 … 20 Volt</td>
</tr>
<tr>
<td>Current</td>
<td>0 … 2000 Amp</td>
</tr>
<tr>
<td>Power</td>
<td>0 … 40 KVA</td>
</tr>
</tbody>
</table>

THREE PHASE INDUCTIVE LOAD BANK (Made in Germany)

<table>
<thead>
<tr>
<th>Type</th>
<th>REOCHOKE 300/100 KVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mains</td>
<td>3 x 400 V (+/-10%), 50/60 Hz</td>
</tr>
<tr>
<td>Inductance Range</td>
<td>5.61 mH …………50.69 mH</td>
</tr>
<tr>
<td>Current Range</td>
<td>15 … 150 Amp</td>
</tr>
<tr>
<td>Power Range</td>
<td>10 … 100 KVA</td>
</tr>
</tbody>
</table>
Double Frequency Double Voltage Generator Panel suitable for 50/60Hz 1000/1200 Volt

Other Insulation Testing Equipment

- Megger – 500-1000-2500 VDC
- HV tester – 0-10kV rms, 100mA
- HV tester – 0-50kV rms, 100mA

Surge comparison/ Impulse Tester
30 KV/ 24kVrms (1/50 μsec)
- 1-PH Harmonic Analyzer (Make: Fluke)
- Micro Ohm Resistance Meter (Make: Motwane)
- LCR Meter (Make: Hemag)
- Multi Meter (Make: Fluke)
- Other Testing Equipment:
  - LCR bridge
  - Clamp on Meter
  - Non Contact Thermometer
  - Micro Meter
  - Digital Vernier Caliper
  - Scale
- Power Analyzer (Make: Yokogawa)
MATERIAL HANDLING FACILITIES

- Pallet Truck 1 – 3 Ton
- Pallet Truck 2 – 2 Ton
- Crane 1 – 1 Ton (Production Area)
- Crane 2 – 5 Ton (Loading/Unloading Material)
- Crane 3 – 2 Ton (Varnish Area)
- MIG Welding Machine
- Generator (63 KVA)
- Air Compressor
  (with Storage Tank 750Ltr.)
- Air Dryer
- Weighing Scale
- Drill Machine
CONTACT US

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