

## ANNOUNCEMENT

### **Brushless D.C. Hub motors for Electric transportation- will now be made in India.**

Rotomag Motors & Controls Pvt. Ltd. a leading manufacturer of small Direct Current (D.C.) motors in India, announces the signing of technical collaboration agreement with Ningbo Polaris Technology Co. Ltd. of China.



Mr. Umesh Balani, the Managing Director of Rotomag and Mr. Tony Luo, the President of Ningbo Polaris

India has a huge potential for Electric transportation solutions- be it scooters, rickshaws or small material transportation automobiles. China has a market for over 25 million such electric vehicles per year and compared to that Indian market for electric scooters and bikes was only 150000 during the year 2008-09. This disparity in figures clearly shows the immense growth potential for such vehicles in India.

However one of the key reasons restricting the growth in India has been non availability in India, of key components of the drive system like batteries, motors, controllers and chargers.

Rotomag manufactures Permanent Magnet and Series/Shunt wound motors Direct Current for Wind energy, Switchgears, Railway signaling systems, Hoists, Hydraulic powerpacks. Three years ago it formed a joint venture company called Rotomotive Powerdrives India Ltd. with an Italian company, Motive Srl to set up a manufacturing plant and bring to India, the European technology in AC Induction motors, Gearboxes and Geared motors.



Manufacturing plant of Rotomag in Anand, Gujarat

In 3 years, Rotomotive has established a pan India presence with over 60 channel partners, 50 service partners and representative offices in 7 major cities. It has an installed base of over 1.1 lac motors and gearboxes and is a supplier of choice to more than 1000 customers in India.

Ningbo Polaris Technology Co. Ltd. is a part of the Hong Kong Bochui Group Ltd and has its headquarters in Cixi near Ningbo. It was established in 2003 and the new factory covering an area of 750,000 sq feet was operational in 2005. The company produces Brushless DC hub motors (with and without gears) and aluminum die casting parts. It has a capacity to produce 1.8 million motors annually.



Office of Ningbo Polaris, Cixi, China



Factory of Ningbo Polaris, Cixi, China

A team of 500 dedicated employees is headed by the President Mr. Tony Luo who has the vision to make Ningbo Polaris a leader in BLDC motors and allied technologies. Ningbo Polaris, apart from being a leading producer of hub motors for the Chinese market also exports these motors to Europe. Ningbo Polaris also invests in development of new designs and their newest model is a compact geared motor which is more efficient and has a higher torque than comparable gearless hub motor.



Winding workshop of Ningbo Polaris

Ningbo Polaris range of BLDC hub motors include motors in ratings of 24-60 volts, 150-2000Watts, speed of 250-500 RPM and suitable for a wheel diameter of 16". The new patented motor design with gears makes it possible to achieve high torque in compact size.



Under the terms of technical collaboration, Ningbo Polaris shall provide to Rotomag, the know-how to assemble as well as customize Brushless DC Hub motors for electric two wheelers and three wheelers. Thus the motors offered by Rotomag shall be customized/modified to suit Indian operating conditions. Rotomag shall be establishing an assembly plant to produce 50000 motors/annum and will be gradually scaled up to meet the growing demands of the Indian market.

Concurrently, the most popular models shall be localized to improve the lead times and improve suitability of the motors for the Indian market. All motors and other allied products covered under the agreement shall be branded as 'Rotomag Polaris'.