

PiezoMotor AB and Precision Motors Deutsche Minebea GmbH enter into an engineering collaboration and license agreement on piezo motors

UPPSALA, SWEDEN, January 15, 2007

PiezoMotor AB of Sweden, a world leading, game-changing provider of new micro motor technologies today announced that PiezoMotor AB and Precision Motors Deutsche Minebea GmbH (PMDM), have signed an extensive engineering collaboration and license agreement to develop and market linear and rotary type piezo motors.

"This is a milestone in the development of our company", says Mr. Per Oskar Lithell, CEO of PiezoMotor AB. "Ever since the foundation of PiezoMotor AB, we have designed micro motors based on piezo technology for volume applications. We have always aimed at making simple, yet high precision, motor designs, for various demanding applications and that strategy makes us truly unique."

"By bringing our leading piezo motor knowledge together with the impressive know-how and experience of PMDM/Minebea regarding mass volume manufacturing as well as high precision small size motor development, we are now establishing the foundation for creating a breakthrough in the micro motor marketplace. PMDM/Minebea is a perfect development and manufacturing partner for us. Together, we will bring to market the micro motor technologies needed for further miniaturization and increased precision, even for mass volume products", Mr. Lithell continues.

"Piezo motors are not completely new", says Mr. Jörg Hoffmann, Managing Director of PMDM. "This technology has fascinated engineers for a couple of decades already and there are various motors available on the market today and we studied all of them. Even though some designs really provide unique performance and reliability, to a certain extent, they all have the same major problem, they are highly integrated, very complex in structure and by that costly and not mass production capable at all. They are only sellable to niche markets for special applications."

"We are experts at mass volume manufacturing of electronic, electro mechanical and high precision components, and that's the key when developing new products for our company. Looking at the piezo motor concepts developed by PiezoMotor AB, we feel that this really could be the breakthrough for the piezo technology to enter high volume applications in a price competitive environment with the same time providing the performance that our customers require. In our view PiezoMotor AB develops the most interesting piezo motor products in the market place so, naturally, we look very much forward to bringing our capabilities and teams together on two areas, mass volume manufacturing of existing designs and the development of new motor concepts for the micro motion challenges to

come, always keeping in mind, that we have to serve the high volume market with leading edge technology products. We believe we can achieve great things together”, Mr. Jörg Hoffmann continues.

The motors developed by PiezoMotor AB and PMDM will be manufactured by PMDM/Minebea under exclusive license limited to specific high volume applications. The parties will also continuously evaluate additional application areas to be targeted.

About PiezoMotor AB

PiezoMotor AB is dedicated to delivering the best and most cost competitive micro motors for volume applications on the market. Founded in 1997, PiezoMotor AB develops, manufactures and brings to market several types of micro motors based on piezo technology. A number of technological platforms have been developed and successfully patented.

PiezoMotor AB markets the nano-precision Piezo LEGS® motors (Note 1) and the extremely small PiezoWave™ motors (Note 2) designed for mass volume applications such as handheld devices, digital household electrical appliances, medical technology devices and the automotive industry.

The company has its own in-house manufacturing facility and is currently a supplier of motion solutions and partner to many leading multinational companies. Its customers are key players within consumer electronics, medical technology, factory automation, positioning equipment etc. and the customer base is growing rapidly.

The last few years PiezoMotor AB has successfully closed several financing rounds, strengthening the owner base with leading private equity investors and securing funding for capitalizing on the enormous market potential for small and smart micro motors.

About Precision Motors Deutsche Minebea GmbH

Precision Motors Deutsche Minebea GmbH (PMDM), established in 1991 and based in Villingen-Schwenningen, Germany, is the largest motor development centre in the international network of the Japanese Minebea Co. Ltd., Tokyo.

As part of the Minebea group, which employs 53,000 staff and is one of the leading manufacturers of mechanical and electronic components including high precision miniature ball bearings, PMDM develops innovative electronically-commutated DC motors, stepper motors and fans. In addition to the core business, the development of spindle motors for Hard Disc Drives, the company also develops precision motors used in the fields of Automotive, Industrial and Airmovers.

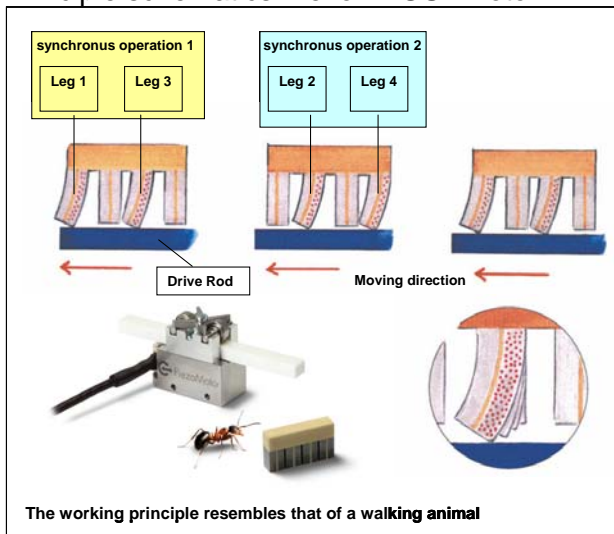
The development process is accompanied by the production of modern manufacturing and measurement equipment for series production. After a successful production start, the products are manufactured in great numbers in the Asian manufacturing locations of the Minebea group.

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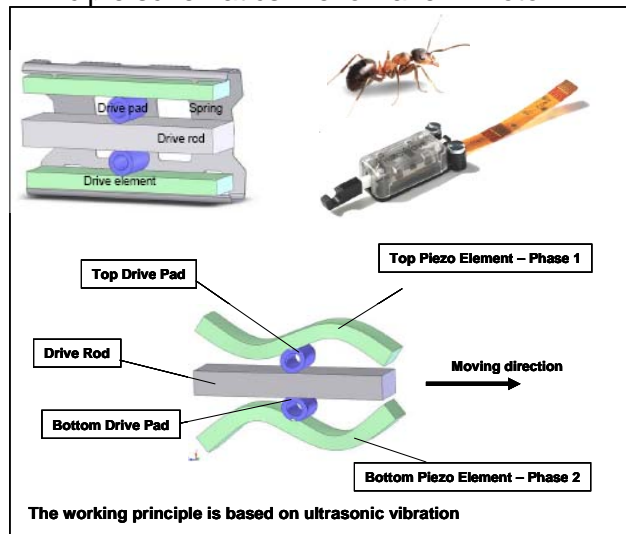
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Note 1:
 Principle schematics Piezo LEGS® motor



Typical Performance – standard type (up-scaled types possible)	
•Force (Dynamic)	up to 10N
•Force (Holding)	up to 12N
•Speed @ 0.1 N	10-15 mm/sec
•Supply Voltage	0 - 42 V
•Current @ max speed	5 mW/Hz
•Stroke length (standard)	up to 100 mm
•Max step length	2 – 3 µ
•Resolution	1 nm
•Temperature range	-30 - +70°C
•Weight	30 gram
•Dimensions (L x W x H)	22 x 11 x 18 mm

Note 2:
 Principle schematics PiezoWave™ motor



Typical Performance	
•Force (Dynamic)	0.1 N
•Force (Holding)	0.3-0.4 N
•Speed @ 0.1 N	50-100 mm/sec
•Supply Voltage	3.3 - 5.0 V
•Current @ max speed	60-70 mA
•Stroke length (standard)	8mm
•Max step length	0.5 - 1.0 µ
•Temperature range	-20 - +70°C
•Weight	0.5 gram
•Dimensions Motor Housing (L x W x H)	14.0 x 7.2 x 4.4 mm