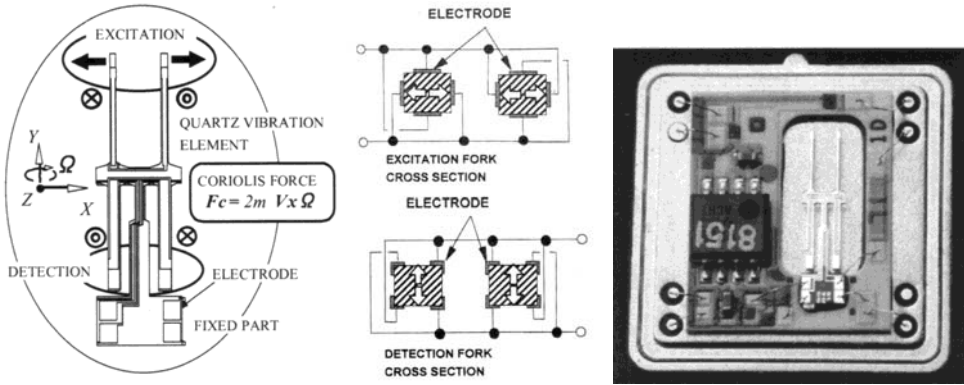
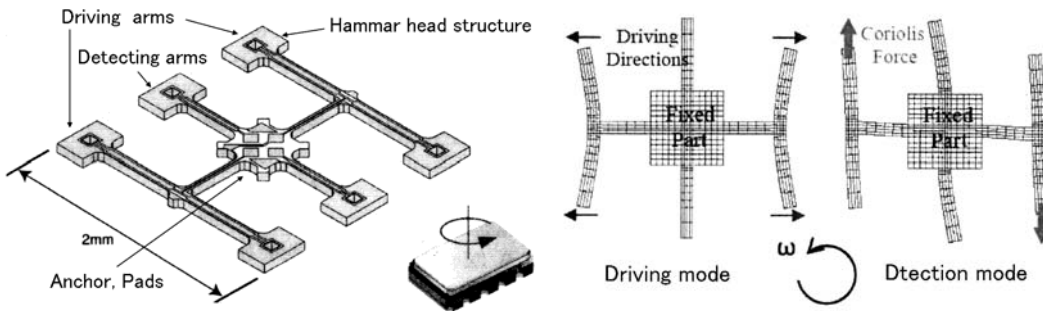


# Piezoelectric Gyro



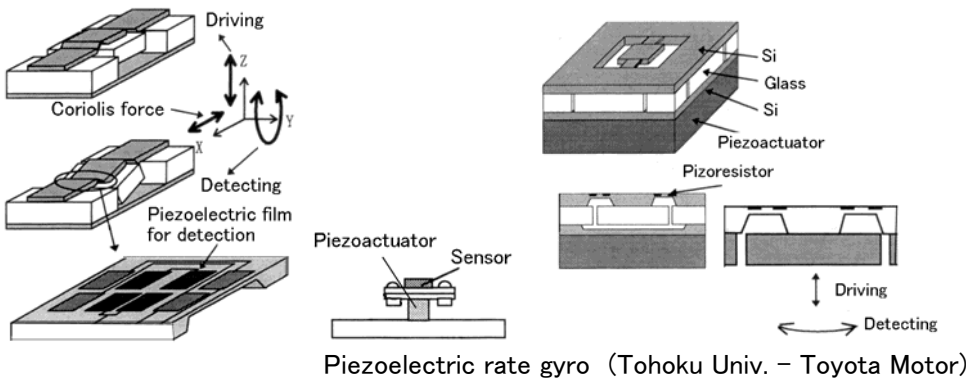
Quartz resonating gyro (Toyota Central Research Laboratory)

Reference : Y.Nonomura, M.Fujiyoshi, Y.Omura, K.Tsukada, M.Okuwa, T.Morikawa, N.Sugitani, S.Satou, N.Kurata and S.Matsushige, Quartz rate gyro sensor for automotive control, Sensors and Actuators A, 110 (2004) pp.136-141



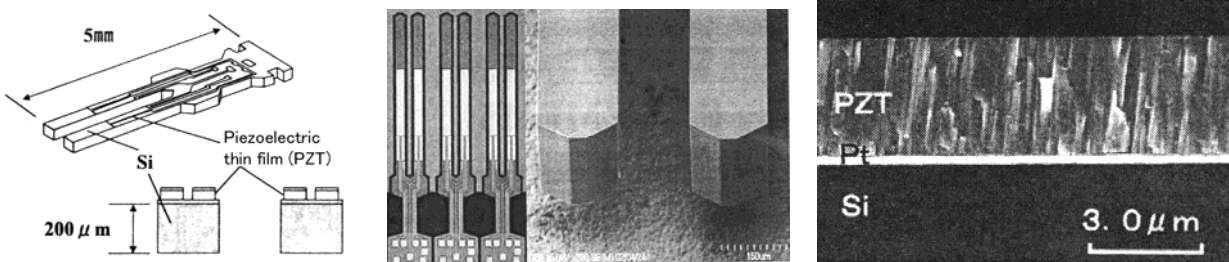
Quartz rate gyro (Epson Toyokom)

Reference : T.Kikuchi, Miniturized Quartz Vibratory Gyrosensor, 4<sup>th</sup> Intl. Symp. On Acoustic Wave Devices for Future Mobile Communication Systems (2010) pp.51-55



Piezoelectric rate gyro (Tohoku Univ. - Toyota Motor)

Reference : M.Nagao, K.Minami and M.Esashi, Silicon Angular Rate Sensor Using PZT Thin Film, Sensors and Materials, 11 (1999) pp.31-39



Piezoelectric angular rate sensor (Matsushita Electric Industry)

Reference : R.Takayama, E.Fujii, T.Kamada, A.Murata, T.Hirasawa, A.Tomozawa, S.Fujii,H.Torii, K.Murata, Preparation of <001> Oriented Thin Films and the Applications to Micro Piezoelectric Devices, Trans. of IEE in Japan, 127-E (2007) pp.553-557