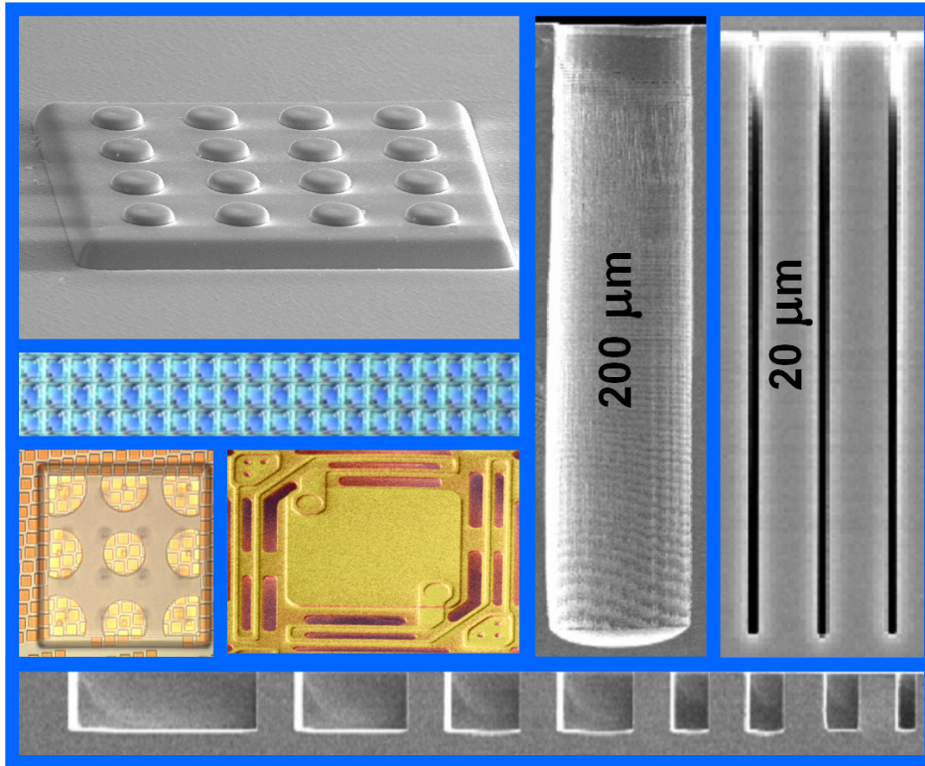


# TowerJazz MEMS Foundry

Partnering for Success



We provide world-class “Foundry MEMS Enablement” solutions combined with high volume 150mm and 200mm CMOS wafer manufacturing. We integrate custom MEMS with our specialty processes to address complex wireless and consumer electronics markets. We are focused on a collaborative partnership model and apply our foundry experience, silicon MEMS processes and customer oriented team to enable the successful and rapid implementation of both 150mm and 200mm MEMS manufacturing, including both prototype and ramp to volume production. We continue to augment our portfolio of specialty silicon technology adding MEMS manufacturing to our existing suite of analog and RF CMOS, high speed SiGe, and high voltage technology enhancing the ability of our customers to create and bring to market more highly integrated analog products.

For more information, please contact:

[Info\\_Mems@towerjazz.com](mailto:Info_Mems@towerjazz.com)

# Wafer Process Capabilities

## Etch

Deep Si, deep oxide, thick metal etches

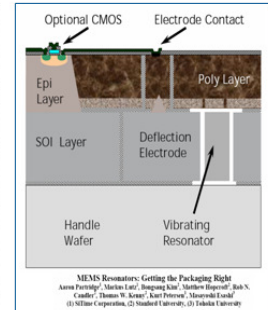
- deep trench isolation
- Si MEMS <1um, 10-20um deep
- deeper etches (> 100um)
- thick metal, deep via



## Release

Multiple tools & methods :

- dielectrics, group IV (Si), polymers
- gas or vapor methods



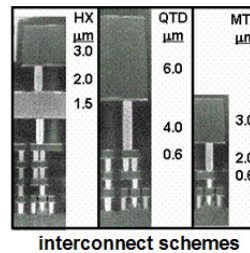
## Encapsulation

Some call this wafer level packaging or thin film seal

- Methods for Si MEMS and RF MEMS

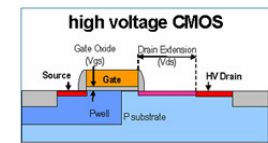
## Integration

- Same wafer CMOS + MEMS



## Manufacturing

- ISO Standards
- Development execution in a CMOS manufacturing line



### About TowerJazz

Tower Semiconductor Ltd. (NASDAQ: TSEM, TASE: TSEM), the global specialty foundry leader and its fully owned U.S. subsidiary Jazz Semiconductor, operate collectively under the brand name TowerJazz, manufacturing integrated circuits with geometries ranging from 1.0 to 0.13-micron. TowerJazz provides industry leading design enablement tools to allow complex designs to be achieved quickly and more accurately and offers a broad range of customizable process technologies including SiGe, BiCMOS, Mixed-Signal and RFCMOS, CMOS Image Sensor, Power Management (BCD), and Non-Volatile Memory (NVM) as well as MEMS capabilities. To provide world-class customer service, TowerJazz maintains two manufacturing facilities in Israel and one in the U.S. with additional capacity available in China through manufacturing partnerships. For more information, please visit [www.towerjazz.com](http://www.towerjazz.com).