

PRESS RELEASE

Evaluate the manufacturing cost of MEMS devices with our comprehensive cost analysis tool.

- MEMS CoST, a Tool for MEMS Manufacturing Cost Analysis -

September 4th, 2009 – Yole Développement and System Plus Consulting are collaborating to release a new MEMS cost simulation tool dedicated to MEMS devices manufacturing, MEMS CoST. With this cost analysis tool, Yole Développement and its partner, System Plus Consulting propose a relevant tool to analysis MEMS manufacturing cost.

MEMS cost structure is gaining increased importance as it can determine the business model for a MEMS company. Indeed, according to the manufacturing technologies (wet vs. dry, type of bonding, lithography ...), but also to the geographical localization of the manufacturing facilities, a MEMS company can select one supplier or another to save money. Moreover, it is also today obvious that MEMS cost have to decrease to be more widely integrated into consumer applications. But, to achieve that, one must be able to precisely estimate the cost structure in order to identify where the pain points are. As an example, the Reverse Costing Analysis made by Yole's partner SystemPlus Consulting, has shown that potential selling price for the gyroscope is below \$2 and that shrinking ASIC, MEMS and/or shifting to 200 mm wafer size could reduce the cost.

MEMS cost structure analysis (including test, packaging and assembly) is the key of the MEMS business evolution. This is why Yole Développement and System Plus Consulting have released MEMS CoST.

A powerful tool designed for the MEMS Community

With MEMS devices providing mission critical functionality in more applications, the need for comprehensive cost simulation is paramount. Due to their non-standard manufacturing process, the cost of MEMS devices can be difficult to estimate. Components such as accelerometers, pressure sensors, inkjet heads or micromirrors involve very different process steps. This is why a specific and very flexible tool is required for their cost estimation. Yole Développement, leader in the analysis of MEMS applications and markets, and System Plus Consulting, leader in cost analysis of electronic products have joined forces to provide this unique MEMS Cost Simulation Tool (CoST).

Benefits of the MEMS Cost Simulation Tool

With Yole's MEMS CoST, MEMS companies are able to run the cost simulation for a variety of different conditions: region, clean room class, process type, etc.

- Very high flexibility: MEMS CoST allows the user to enter any MEMS process flow. The manufacturing process flows are created dynamically in a friendly hierarchical view where each process step can be moved, modified or deleted. The user can save an unlimited number of process flows, equipment types and materials



Moreover, a project manager function offers the possibility to save all the user created data and scenarios (wafer Fab unit, process flow, yields...) and to reuse them later.

This new tool includes two calculation modes: for dedicated fabs and non-dedicated fabs.

- Simulation of up to five simultaneous scenarios allowing the user to run sensitivity analysis and compare results like yield improvement, manufacturing location impact on cost, etc.
- MEMS CoST uses an Excel™ interface for maximum usability. This tool will enable you to evaluate the cost per wafer for manufacturing using your own inputs or using the pre-defined parameters included with the tool.

The use of MEMS CoST:

- Estimation of the MEMS margin
- Understanding of the cost structure
- Competitive analysis
- Cost evaluation for different technology options
- Identification of the cost pain points in your process
- Definition of a business model (fabless, fablight, manufacturing ...)

MEMS CoST

MEMS Cost Simulation Tool is now available.

Catalogue price: EURO 8,990 (single user License)

About Yole Développement

Yole Développement is a market research and strategy consulting company, specialised in the MEMS fields. Yole Développement offers various kinds of services:

- Custom market research and technology/strategy analysis
- Marketing and communication services
- Market reports

Founded in 1998, Yole Développement is the world leader in the analysis of the microtechnologies and compound semiconductors markets. Each day, Yole's team of 18 consultants is in worldwide contact with key industrial companies, R&D institutes and investors in order to help them to understand the market and technology trends. Yole consultants take into account the complete value chain including materials and equipment suppliers, device & system manufacturers.

For more information: www.yole.fr

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About System Plus Consulting



System Plus Consulting is a company specialized in the cost analysis of electronics: integrated circuits, electronic boards and systems, providing on demand Reverse Costing studies explaining the cost construction of ICs, MEMSs, ECUs, and complete electronic systems.



The studies are realized with the help of cost analysis software tools developed in house and including cost models and technological databases. Some software tools are available under licence: IC Purchaser to calculate the production cost of integrated circuits, Syscost for electronic boards and systems. Specific models are developed on demand.

Reverse Costing studies and tools are used by purchase departments for enhanced negotiation, advanced costing or marketing departments for competitive analysis. Most of the company customers come from the automotive and telecommunications industries.

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