# M E M S C



## Infinite Possibilities For MEMS

## **Commercialization support**

Your guide from concept to volume production

Concept verification

Purpose

Assess fab match Verify feasibility

Input from customer

Design information Required specification Development plan

Service of MEM5 💢

Prototyping for verification of feasibility

Design support

Establish manufacturing process

Development of equipment for volume production

Support development plan

Test production

Purpose

Verification of propriety in design

Refine design and manufacturing process

Input from customer

Design information Required specifications Plan of volume production Verification and validation of design

Service of MEMS CX

Verify manufacturability of design

> Design support Validation of

manufacturing process **APQP Compliant\*** 

Transfer to volume production

Purpose

Verification of transfer to volume production

Improvement in yield rate

Input from customer

**Design information** 

Required specification

Planning for volume production

Test and reliability criteria

Service of MEM5

Prototyping for transfer to volume production

**Estimation of volume** manufacturing LT

Formal approval for mass production

APQP Compliant\*

\*APOP: Advanced Product Quality Planning

### History of MEMS business in Sumitomo Precision Products Group

#### We will support you with our MEMS technology fostered through three decades of experience

Launched sales of MEMS manufacturing equipment with IX200 integrated wafer process system Founded Hands-On-Laboratory

Fundamental study on MEMS device started

1995 | Silicon deep RIE equipment (Si-DRIE) on sale

1998 Introduced micro-miniature MEMS accelerometer

Joint venture with BAE in UK founded for

manufacturing and sales of MEMS gyroscope —

Process equipment technology

Production capacity

Device development



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SUMITOMO PRECISION PRODUCTS CO., LTD.