



# INTERNATIONAL JOURNAL OF MACHINE TOOLS AND MANUFACTURE

Design, Research & Application

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### DESCRIPTION

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The *International Journal of Machine Tools and Manufacture* is devoted to advances in scientific understanding of **essential mechanics of processes and machines** applied to the **manufacture of engineering components**, mainly in **metals**, but also in **composites, ceramics and other structural/functional materials**. It does not deal with large-scale natural organic materials. To this end coverage is given to a range of topics that includes:

- Essential **mechanics of processes** involving **material removal, accretion and deformation**, in solid, semi-solid or particulate form
- Performance characteristics** of machine tools and machine tool work-piece systems
- Tool design**, utilization and failure
- Significant scientific development of existing or new processes and machines
- Approaches to added value through **geometrical/microstructural precision**
- Micro manufacture**

The above list is not exhaustive and papers on other topics associated with process science/technology or manufacturing hardware are welcome. Significant and useful advance of the current state of knowledge is an essential factor and it is important that papers are presented in a manner that will be appreciated by both academics and practising engineers. It is unlikely that papers dealing with theory or modelling alone will be acceptable, unless a significant proven advance in scientific/technological knowledge is demonstrated. Likewise, papers in which the use of methodology predominates over technological advance would probably be rejected. Normally, multipart papers are not acceptable.

### AUDIENCE

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Research workers, educationalists and practising engineers involved in the development of manufacturing technologies, hardware and management systems.

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### *Description*

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