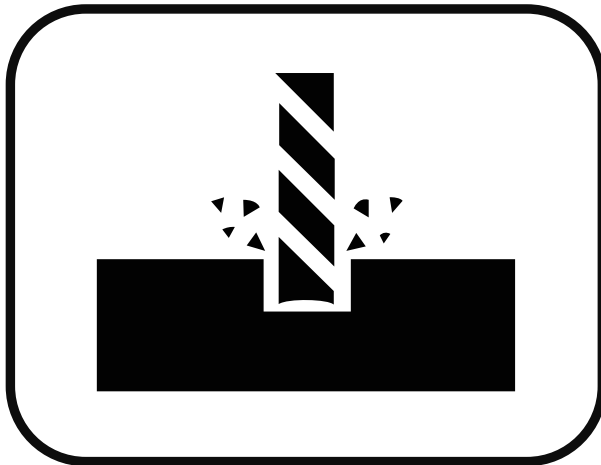


A287

Machining and assembly management (MAM)

Systems knowledge article



Document Type Article

Document Identifier 287

Themes • [Machining and assembly management](#)

Tags • [System theme](#)

Prerequisites • [Systems Knowledge](#)

Machining and assembly management deals with aspects related to finishing of composite parts and assembly/joining of composite parts. Finishing operations include part trimming, hole drilling, hole cutting & general machining. Assembly operations include fastener assembly methods, inserts, bonding, co-curing, etc. Assembly can also include shimming of components, which is a direct consequence of [residual stress and dimensional control management](#). The priority of this theme is manage the process of machining and/or assembling composite parts to obtain desired outcomes.

More content on this theme is coming soon. Please check back. If you have expertise in this topic and wish to contribute your knowledge through CKN and the Knowledge in Practice Centre, please [contact us](#) to discuss further.

Related pages

Page type	Links
Introduction to Composites Articles	
Foundational Knowledge Articles	
Foundational Knowledge Method Documents	
Foundational Knowledge Worked Examples	

Systems Knowledge Articles

- Machining and assembly management (MAM) - A287
- [Materials deposition and consolidation management \(MDCM\) - A157](#)
- [Quality/inspection management \(QIM\) - A288](#)
- [Residual stress and dimensional control management \(RSDM\) - A165](#)
- [Thermal and cure/crystallization management \(TM\) - A107](#)

Systems Knowledge Method Documents

Systems Knowledge Worked Examples

Systems Catalogue Articles

Systems Catalogue Objects - Material

Systems Catalogue Objects - Shape

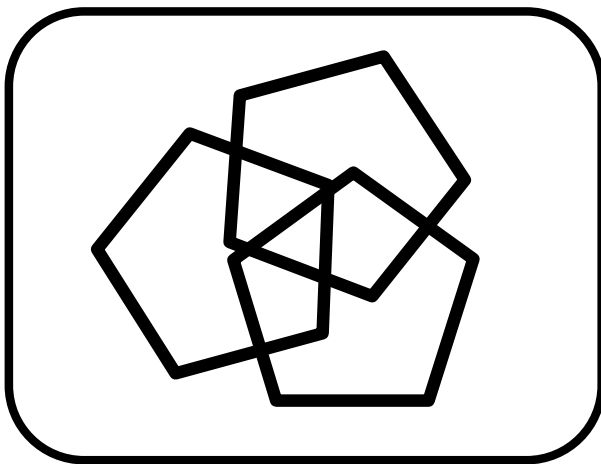
Systems Catalogue Objects - Tooling and consumables

Systems Catalogue Objects - Equipment

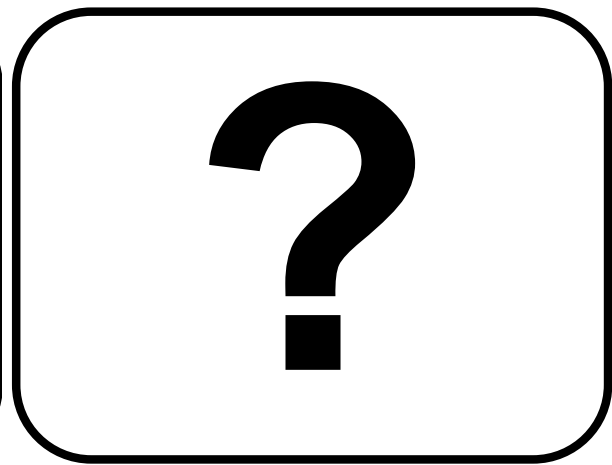
Practice Documents

Case Studies

Perspectives Articles



About



Help

Engineered materials (designed to have specific properties) made from two or more constituent materials with different physical or chemical properties. The constituents remain separate and distinct on a macroscopic level within the finished structure.

A key component of all composite manufacturing processes. Collectively, the four themes represent the time-temperature-pressure-vacuum history, which is traditionally used to define a manufacturing cycle.

The four processing themes are:

- Thermal management
- Material deposition management

- Flow and consolidation management
- Residual stress and dimensional control management

(Same as "Processing themes")