

2. CAM: Computer Aided Manufacturing



INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

Výuka jazyků
prostřednictvím ICT

CZ.1.07/1.1.10/03.0026

Computer Aided Manufacturing

CAD – Computer Aided Design:

conceptual designs for new products



bill of materials

Computer Aided Manufacturing

CAD – Computer Aided Design:

Advantage:

no requirement for physical prototypes

Disadvantage:

CAD software data needs to be manually converted into manufacturing instructions

Computer Aided Manufacturing

CAM: Computer-Aided Manufacturing

bridges the gap between the conceptual design and the manufacturing of the finished product.



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Computer Aided Manufacturing

How?

CAM software directly converts CAD software data into a set of manufacturing instructions in the form of G-code

What is G-code?

Programming language for machine tools

Computer Aided Manufacturing

Why is G-code important?

G-code instructs machine tools to manufacture a large number of items with perfect precision.

Machine tools linked into “cells“ can therefore perform single steps of a process.