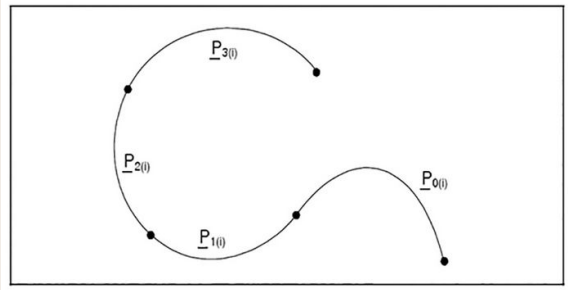
# Spline interpolation

Productivity | Performance Increase




Series

MCH | MCH-C | MCi

Control

SIEMENS Powerline

Spline interpolation is used to connect individual nodes with a well-balanced bending line. It efficiently replaces the conventional method of approximation via straight-line blocks.

## Characteristics

_ Connection of point sequences for smooth curves

_ Faster and more exact method than conventional linear interpolation

_ Various spline types with different properties and results available

_ Spline profile set via additional parameters

## Benefits

_ Fast and exact: generation of precise and smooth curves in the CAD system with little computing effort for programmers and machine

_ Less machine load: quieter handling characteristics of the axes thanks to spline interpolation protects the machine mechanisms

_ Less data, more feed: conversion of a large number of linear blocks by means of data reduction to a few spline blocks, thereby achieving economical production with faster feed rate