PTC®

the product development company®

Creo™ Elements/Direct™ Mold Base

AUTOMATE REPETITIVE TASKS WHEN DESIGNING PLASTIC INJECTION MOLDS
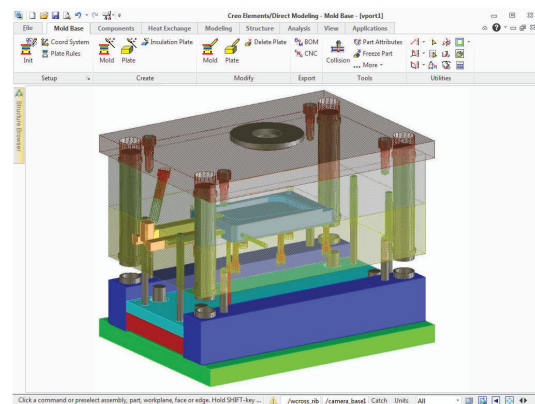
Formerly CoCreate®

Creo Elements/Direct Mold Base provides mold designers with powerful, intelligent capabilities within Creo Elements/Direct Modeling.

Creo Elements/Direct Mold Base, with its highly interactive and intelligent tooling, reduces the repetitive tasks prevalent in designing plastic injection molds. Based on R&B® Mold & Die Design Solutions, Creo Elements/Direct Mold Base gives mold designers access to leading-edge CAMD (Computer-Aided Mold Design) solutions, allowing them to generate complete 3D CAD mold tool designs.

Key benefits

- Provides automated, step-by-step design processes to create plastic injection molds.

- Helps navigate through hundreds of standard components with help from a visual component browser. For specific components, Creo Elements/Direct Mold Base provides design advice when it checks the validity of its parameters against the geometry of the mold base assembly.

- Automates many tasks of the mold design process, including identifying the ideal size of the mold base, selecting and placing components, building the cooling system, checking collisions, and more.

- Ensures design for manufacturability. Creo Elements/Direct Mold Base checks for part interferences, and detects potential tooling issues, such as thin-walls, within mold base assemblies.

- Standardize molds with hundreds of time-saving standard components from 14 integrated component catalogs.

Creo Elements/Direct Mold Base is a flexible add-on module for Creo Elements/Direct Modeling.
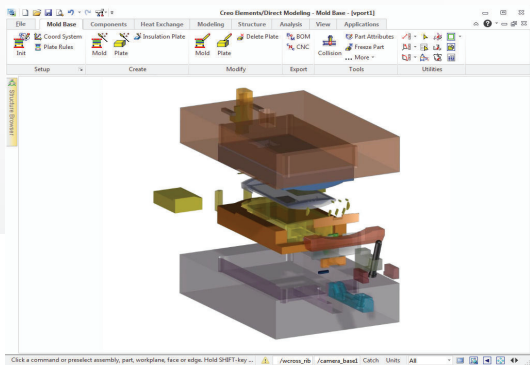
Features and specifications

Faster Mold Base Assembly Design

- Simplifies your design, with highly automated capabilities

- Provides standard, commercial catalogs

- Identifies ideal size of mold base by analyzing size of core and cavity

- Interactively previews and provides intelligent guidance for selecting components

- Automatically places components according to catalog definition

Cooling system definition

- Build a 3D cooling system based on:

  - Cooling lines

  - Cooling components

  - Connection conditions

Creo Elements/Direct Mold Base was developed so designers can easily and quickly create mold base assemblies for injection molding.

Modification features

- Move and modify plates and components

- Update components after plate changes, semi-automatically

- Change the initial mold base specification

Complete set of tools for all your mold base work

- Collision checks:

  - Thin-wall detection

  - Display of components and overlap

- Multi-insert molds – multiple core and cavity inserts

- Non-standard mold bases – overwrite regular parameters of a standard mold base, or use any Creo Elements/Direct Modeling model

- Bill-of-materials – for manufacturing and purchasing of the mold base

- CAM interface – transfer to CAM systems through the Open CAM interface (included in Creo Elements/Direct Modeling)

Component catalog

- Ejectors, guide pins, cooling, etc.

- Graphical preview while defining the right parameters

- Flexibility, so you can add company-specific components

- 14 commercial catalogs, including:

    - D-M-E (English and metric)

    - HASCO (English and metric)

    - NATIONAL

    - RABOURDIN

    - FUTABA

    - EOC

    - STRACK

    - PEDROTTI

    - SIDECO

    - PCS

    - MEUSBERGER

    - MISUMI

Prerequisites

- Creo Elements/Direct Modeling

Platform requirements

Creo Elements/Direct Mold Base supported operating systems:

- Windows® 7 32-bit and 64-bit Editions of Ultimate, Enterprise, and Professional

- Windows Vista® 32-bit and 64-bit Editions of Ultimate, Enterprise, and Business

- Windows XP Professional 32-bit and 64-bit Editions

For the most up-to-date platform support information, visit: PTC.com/partners/hardware/current/support.htm

For more information, visit: PTC.com/products/creo-elements-direct

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