

Explizit : Übersicht

Neben dem parametrischen Konstruieren bietet CADD5 5 - Explizit ein weiteres Konstruktions-Environment.

Die integrierte Drahtkanten-, Flächen- und Volumenmodellierung bilden das Fundament für eine Vielzahl von Applikationen :

DETAILING AND DIMENSIONING - Zeichnungserstellung

NURBS SURFACE DESIGN - Exaktes Modellieren komplexer Formen unter Verwendung von NURBS-Kurven und -Flächen (Non-Uniform Rational B-Splines)

CVMAC - Makro-Sprache / Anwendungs-Programmierung

HARNESSEDESIGN - Bearbeitung von Kabelbäumen vom Entwurf bis zur Fertigung

CVNC - Werkzeugweg-Generierung für alle gängigen 2 bis 5-Achsen-Bearbeitungen

STRESSLAB - Belastungsanalyse von Bauteilen (FEM - Berechnungen)

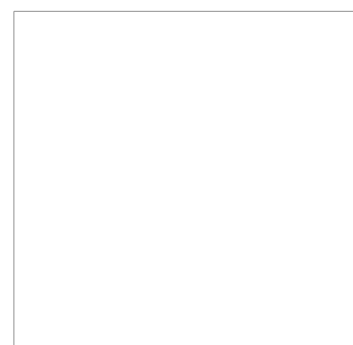
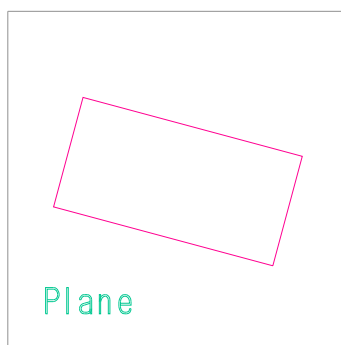
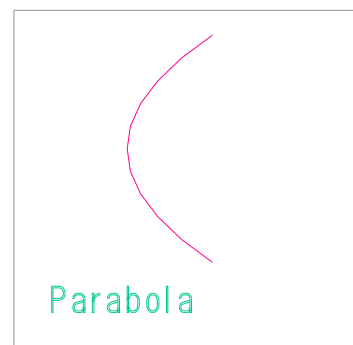
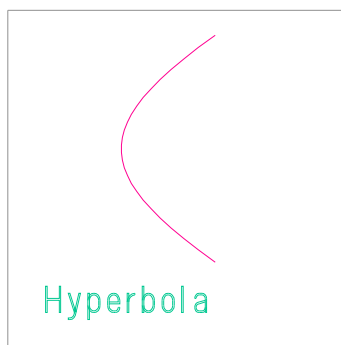
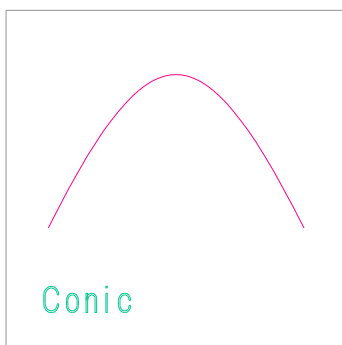
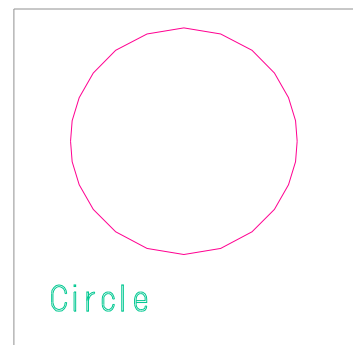
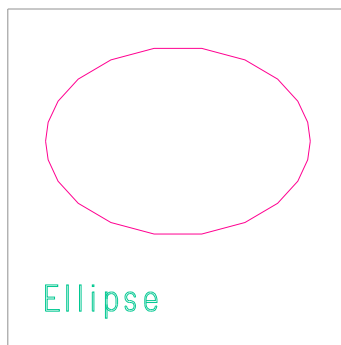
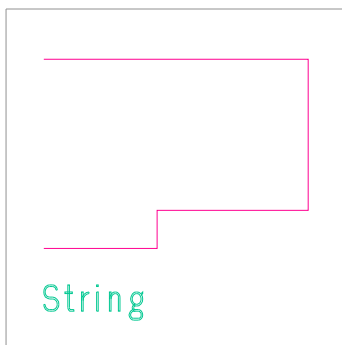
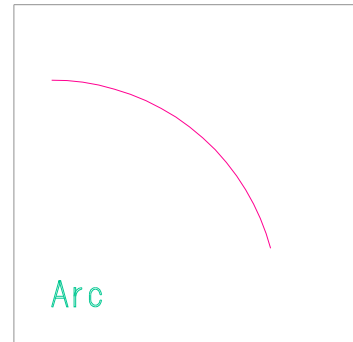
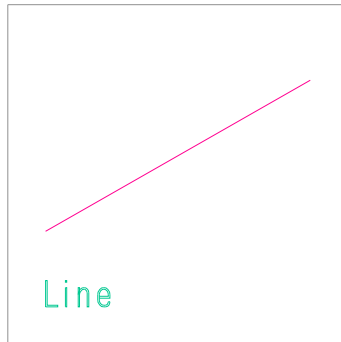
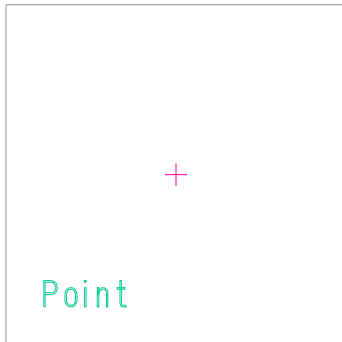
SYSTEMSLAB - Analyse des kinematischen Verhaltens mech. Systeme

PLASTICSLAB - Rheologische Analysen von Spritzgußbauteilen

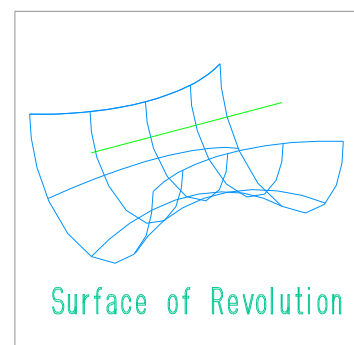
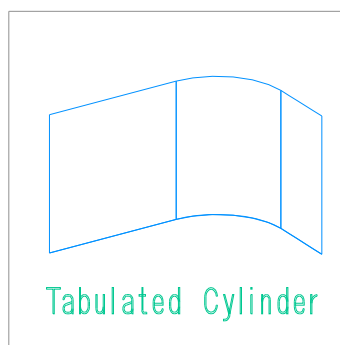
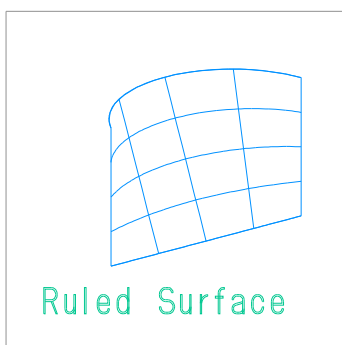
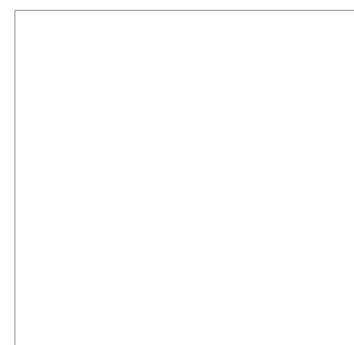
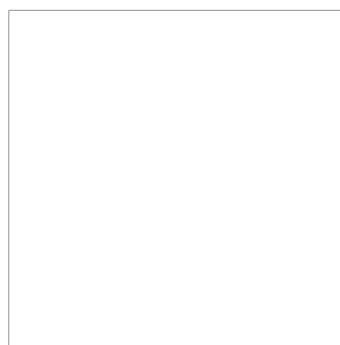
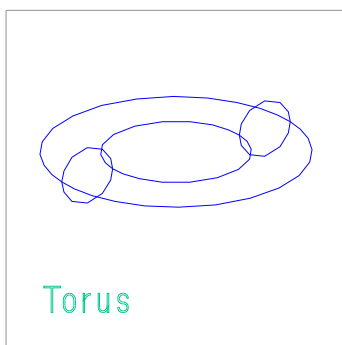
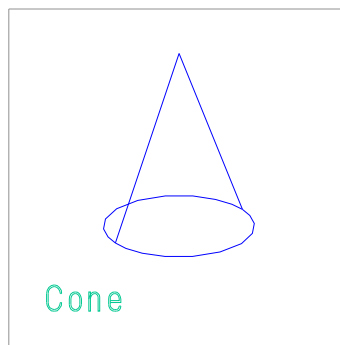
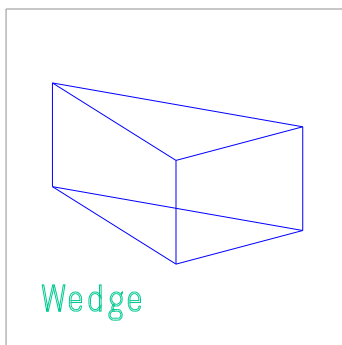
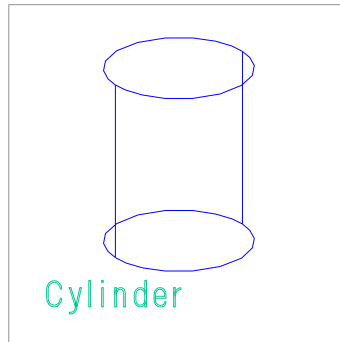
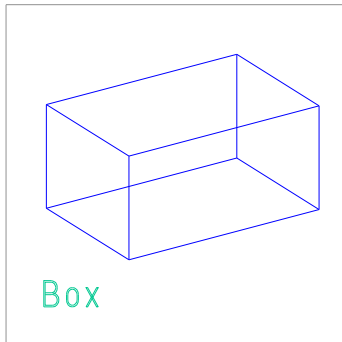
Dokumentation

doc38102 / Explicit Modeling User Guide and Menu Reference

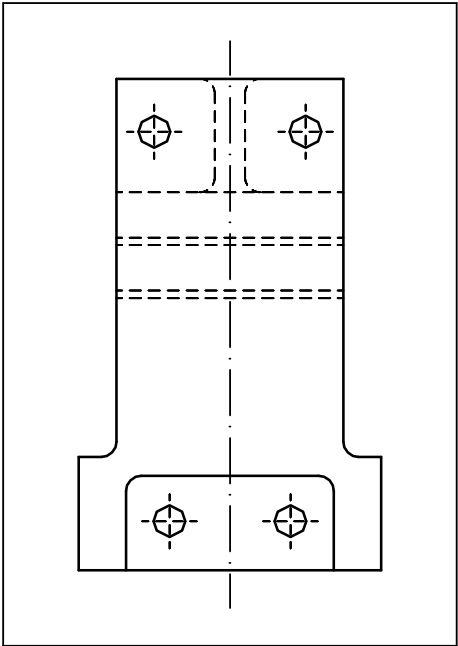
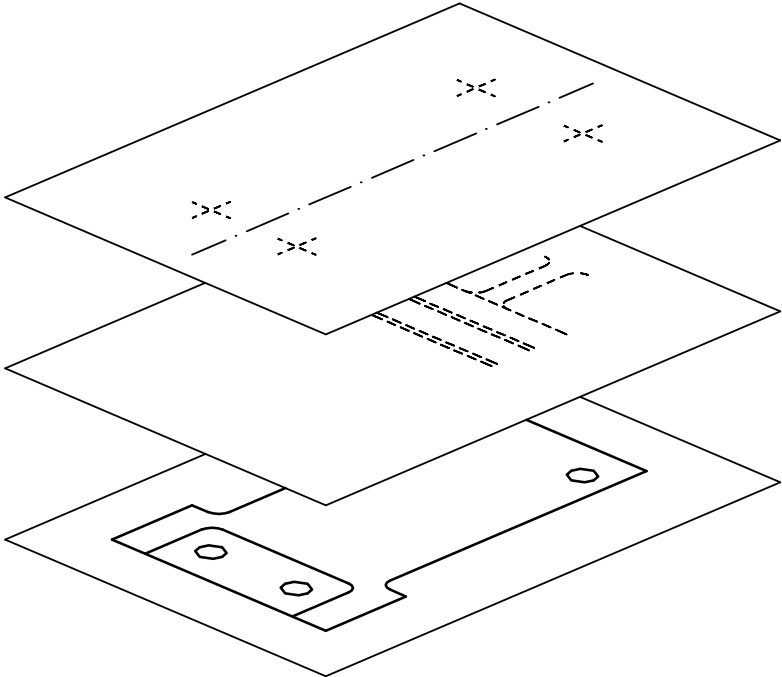
Explizit : Basis-Elemente / Wireframe



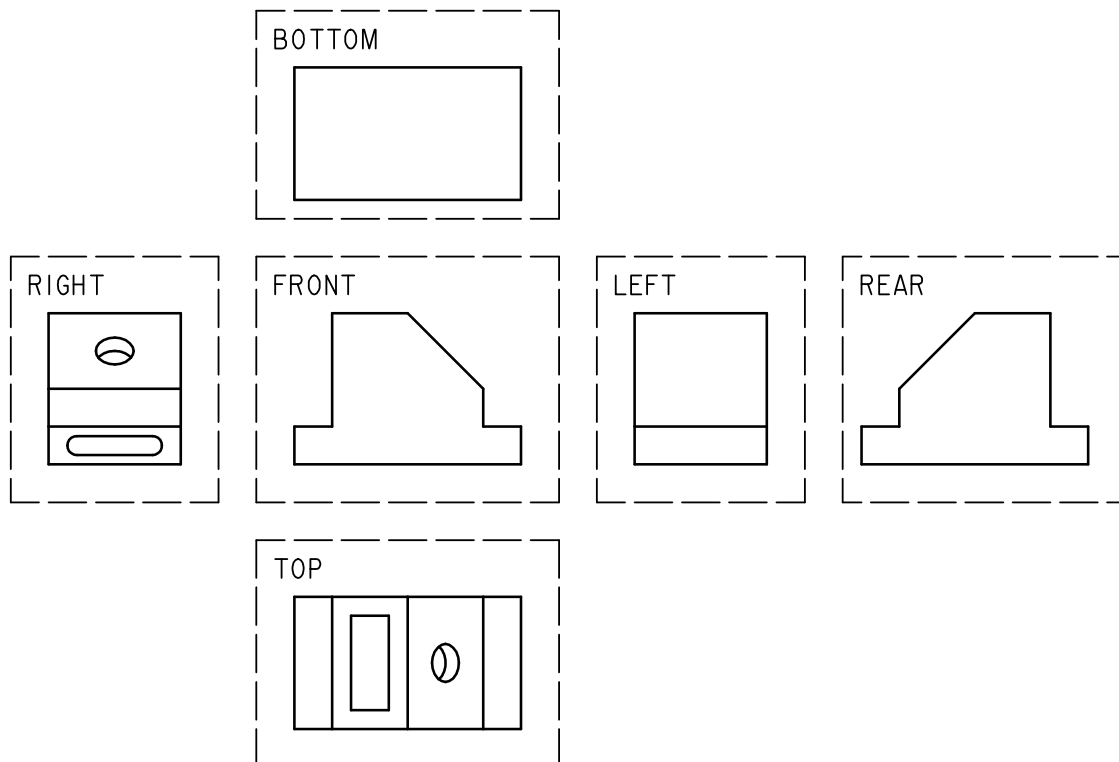
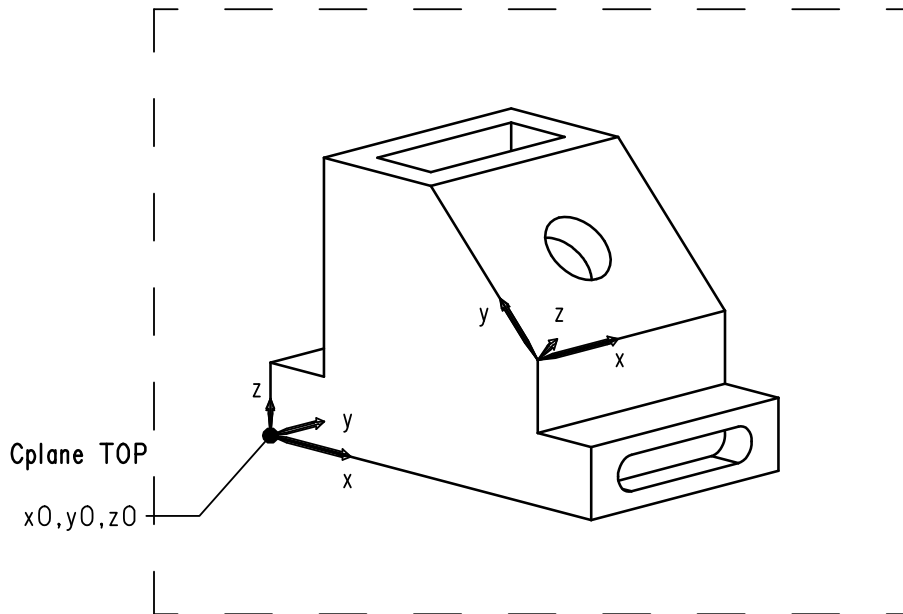
Explizit : Basis-Elemente / Solids und Surfaces



Explizit : Layer - Technik

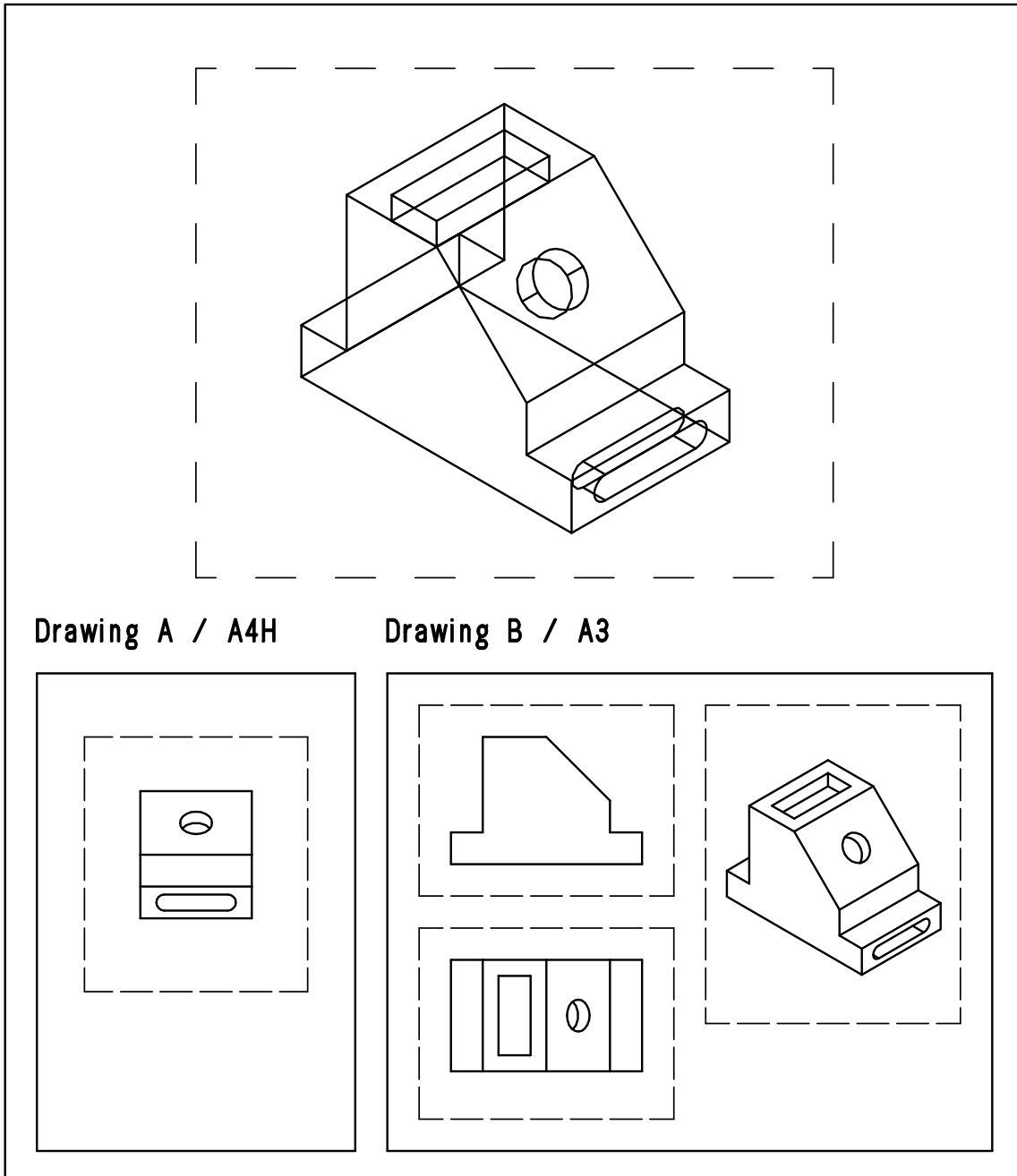


Explizit : Cplanes / Konstruktionsebenen

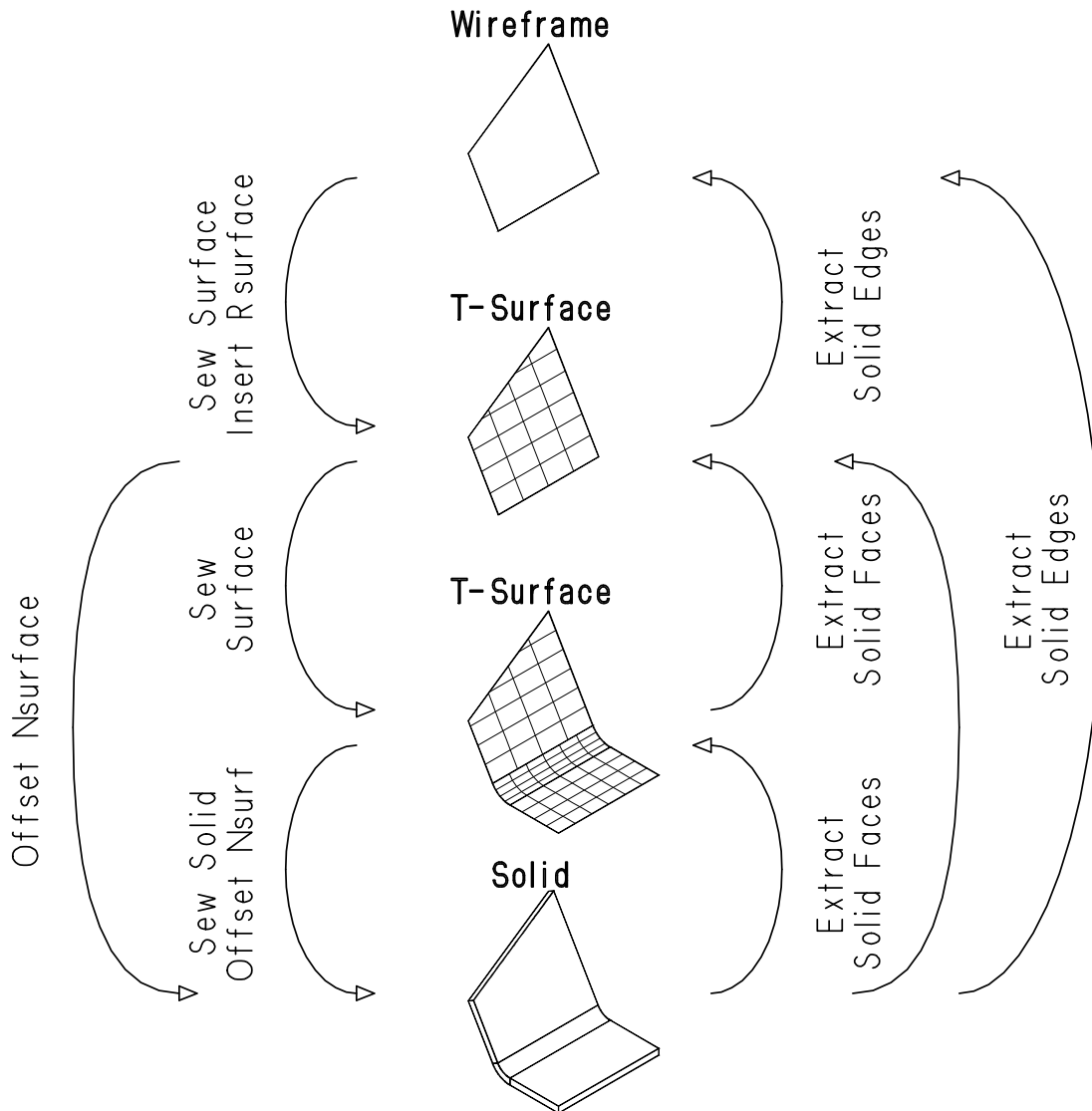


Explizit : Partkonzept / Part - Drawing - View

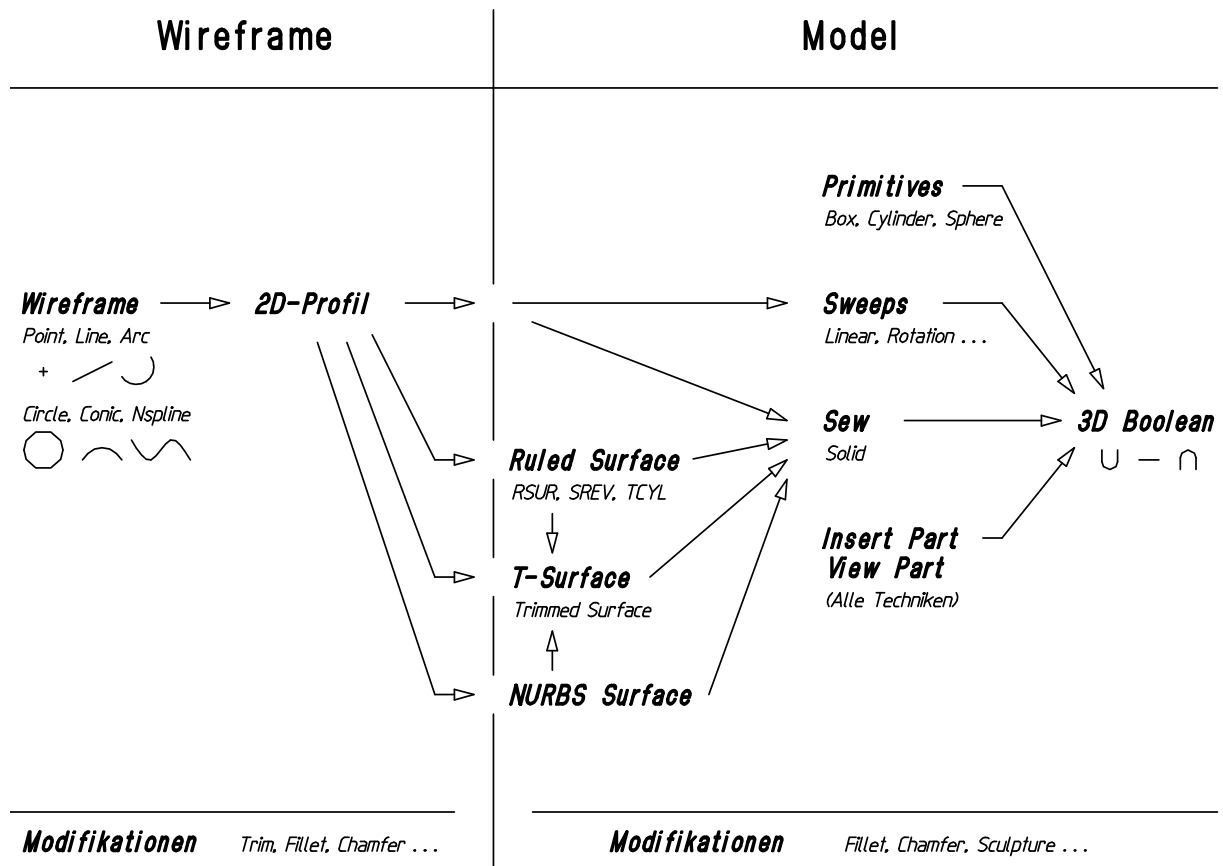
Part



Explizit : Integration / Wireframe - Surface - Solid



Explizit : Arbeitstechniken



Explizit : Kommando-Syntax

VERB NOUN MODIFIER : GETDATA

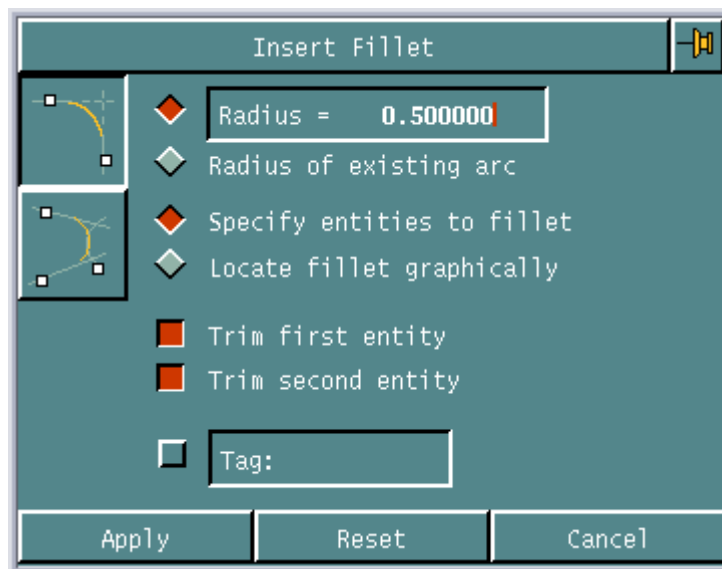
INSert LINE VERTICAL : LOC X0 Y0 Z0, IY 50

!INSert LINE Online-Dokumentation
Textdateien unter /usr/apl/cadds/data/doc

? Liste aller Verben
ACTivate ADD ADJust ADRawname
ALTer ANGLEstep ANNotate APPRoximate
ASSIgn ASSOciate ATTAch AUTO
BLANK BLEnd BREak ...

INSert ? Liste aller Substantive (Nouns) zu 'INSert'
ACOnnector ADImension APOint ARC
ARRow BALloon BDElement BDETail
BDHole BEAM BEARing BEND
BOLthole BOX BSpline ...

INSert LINE ? Liste aller Modifier zu 'INSert LINE'
TANTO HOR VER PAR PERP
ANG LNG CPLANE XANG BOTH ...



INSert FILlet RADIUS 0.5 TRIM : MODEL ent

Explizit : Einstellungen (1 / 2)

EXEcute FILE setup-expl

```

*****
*                               *
*           CADD5-Explizit      *
*           Parameter-Einstellung *
*           Text-Hoehe 3.5 mm   *
*****
* MODEL GRID
SElect GRId MODEL DG 25
* DRAW GRID
SElect GRId DRAW DG 10
* DETAILING SETUP
* Dimension Setup
SElect DIMension DRaw ASSociative
SElect DIMension REGen Immediate
SElect DIMension RETain OFF
* Arrowhead Parameters
SElect DIMension ARrowhead LENGth 3.5 RAtio 3.87 DIam 2
SElect DIMension ARrowhead Filled
* Dimension Elements
SElect DIMension STandard Iso
SElect DIMension LAYer PRIMARY 180 SECONDARY 185
SElect DIMension PRImary ON SEcondary OFF
SElect DIMension DUal OFF
SElect DIMension PREc BOTH 2 ANgular 2
SElect DIMension Gap 0
SElect DIMension NOCheck
SElect DIMension SOLid Factor 1
* Text Parameters
SElect TEXT HGT 3.5 WDT 3 FONT 19
SElect TEXT SLANT 0 LJT BJT CASE 2 LNSP 2
* Dimension Text
SElect DIMension TEXT FOrmat MEtr Norm POi Comma
SElect DIMension TEXT LOrcation AUtocenter
SElect DIMension LEading0 NOTRailing0
* Tolerance Parameters
SElect DIMension Tolerance OFF
SElect DIMension Tolerance PRECISION PRIMARY 2 SECONDARY 2
SElect DIMension TOl RHeight 0.75
* Dimension Units
SElect DIMension Units LInear PRIMARY MILLimeter SECONDARY Inch
SElect DIMension Units ANgular Degr
* Centerline
SElect DIMension CEnter LOnG 20 SHort 1 GAP 5
* CADD SHADE
SElect SHAde ON MODEL Dir -500,-500,1000 AMBIent 0.2 SMOoth 1 < *
SIz 0.1 Update SPecular ANnotate

```

Explizit : Einstellungen (2 / 2)

```

*****
*                               Layerbelegung                               *
*****
*   PARA   Color                Nr   Infos
* -----
*   1      Carnation             16   Fertigteil
*  10-19   Orange                54   Construction
*  20-29   Tan                   37   Wireframes
*  30-39   Fuchsia               52   Surfaces
*  40-59   Peacockblue           62   Solids
*  60-69   Peach                 36   Sections
*  70-79   Teal                  64   Sonstiges
*  80-89   Steel                 60   Sonstiges
*  90-99   Lightgray             40   Waste ...
*   EXPL   Color                Nr   Infos
* -----
* 101-109  Yellow                9   Hauptgeometrie
* 110-119  Magenta               8   Hauptgeometrie
* 120-129  Green                 7   Hauptgeometrie
* 130-139  Cyan                  10  Hauptgeometrie
* 140-149  Rose                  19  Hauptgeometrie
* 150      White                  1   Mittellinien
* 151-159  Lightyellow           28  Nebengeometrie
* 160-169  Salmon                53  Nebengeometrie
* 170-179  Wedgewood             43  Schraffuren
* 180-189  Aquamarine            49  Bemassung, Symbole ...
* 190-199  Lightgray             40  Zeichnungsrahmen ...

Select Ldiscr White Layer 0-254
Select Ldiscr <*
Color 16 Layer      1 <*
Color 54 Layer    10-19 <*
Color 37 Layer    20-29 <*
Color 52 Layer    30-39 <*
Color 62 Layer    40-59 <*
Color 36 Layer    60-69 <*
Color 64 Layer    70-79 <*
Color 60 Layer    80-89 <*
Color 40 Layer    90-99,190-199
Select Ldiscr <*
Color  9 Layer 101-109 <*
Color  8 Layer 110-119 <*
Color  7 Layer 120-129 <*
Color 10 Layer 130-139 <*
Color 19 Layer 140-149 <*
Color 28 Layer 151-159 <*
Color 53 Layer 160-169 <*
Color 43 Layer 170-179 <*
Color 49 Layer 180-189
Discriminate Layer
*** Ende des Executes ***

```

Explizit : Layer - Farben

