

# CADRA

## Cadra LIB/BOM

### *Integrated Library and Bill of Materials*

Looking to improve your productivity in Cadra? Here is the tool you are looking for. CadraLibrary (LIB) and CadraBOM are the solutions to complete your design with all the commercial parts you need. No more wasting time to properly represent commercial parts or finding them in a paper catalog. They are all available at your fingertips. A "common place" for all Cadra users to find the parts they need.

All CadraLIB parts are parametric, leveraging on Cadra FlexDesign features like Cut-out. It has been built to enable faster design with all the reference points made available. It helps you obtain construction table for straight and conic gears, Gleason and more.

New version imports parts from suppliers CD catalogs based on Cadra parameters you set up.

CadraLibrary can be connected to a database to easily create automatic Bill of Material for your drawings.

### Why Choose CadraLibrary?

- Save Time
- Point and click to find all your parts.
- Avoid Costly Mistakes
- CadraLIB allows you to pick only parts that are currently available. You will reduce inventory and save expenses.
- Real Time Updates
- Find all your common information in one place.
- Integrated Software

CadraLIB is fully integrated into Cadra Design Drafting menus and files. It is connected with the CadraBOM database that will automatically generate your bill of materials. Integrate it with CadraEDM for workflow and document management.

### Why Choose CadraBOM?

- Save Time
- CadraBOM automatically produces your bill of materials and because you make your choices only once, you do not waste time.



- Quick Access to Data
- Directly retrieve your master bill of materials data.
- Avoid Task Redundancy and Costly Mistakes
- CadraBOM stores all your information in a database so there is no need to retype and start over with every change.

### Library Contents

- Machining Symbols (old standard, general old standard, new standard)
- Form and Position tolerances
- ISO System of Limits and Fits for shafts and holes plus a program for the check of tolerances
- Shafts generation
- Parallel splines (UNI 8953): medium and light type
- Seals for dynamic applications (Angst+Pfister): type A (12-300mm)
- Ring-joint facing, type "O-ring" (Angst+Pfister) for shafts and holes (static and dynamic seals)

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# INTELLIGENT DESIGN & DRAFTING

- Retaining rings for shafts (UNI 7435) and roles (UNI 7437)
- Ring nuts SKF: KM and KML types, with or without tab washer
- Holes: threaded (metric ISO threads), GAS threaded (UNI-ISO 228), threaded blind, centered 60° (UNI 3220), threaded centered 60° (UNI 3221)
- External metric ISO threads (ISO 4755), with or without undercuts
- Seats for head cap screws
- Bearings (SKF): deep groove ball, self-aligning ball, angular contact ball, cylinder roller, needle roller bearings, spherical roller, taper roller single row, thrust ball, cylindrical roller thrust
- Hexagon socket head cap (UNI 5931): screws and bolts (M3-M48)
- Hexagon head: screws (UNI 5739) and bolts (UNI 5737) (M3-M64)
- Hexagon socket countersunk head (UNI 5933): (screws M3-M20) and bolts (M5-M16)
- Hexagon socket set screws: with flat point (UNI 5923, M3-M24), with dog point (UNI 5925, M3-M24), with cone point (UNI 5927, M3-M24)
- Hexagon nuts: thick (UNI 5587-68, M3-M64), normal (UNI 5588-65, M3-M64), lock (UNI 5589-65, M6-M64) Washers: normal (UNI 6592, M3-M64), spring (UNI 5589-65, M6-M64)
- Pins: parallel (DIN 6325-DIN 7, UNI 1707), parallel with threaded hole (DIN 7979, UNI 6364), taper (DIN 1, UNI 7283), taper with threaded hole (DIN 7978, UNI 7284), elastic - heavy type (UNI 6873)
- Feather keys - seats: normal (UNI 6604), stub (UNI 7510)
- Gear calculation: straight-tooth gear, helical Standard manikin

## Products

CAD/CAM products available from SofTech include:

### Base Products

**Cadra Design Drafting** - a 2-1/2D design and drafting program designed to speed the production of mechanical drawings

**Cadra NC** - a 2 through 5 axis NC programming package

**Cadra View/Check** - a viewing and/or red-lining utility which provides broad access to Cadra drawings and models across the organization

**DesignGateway** - allows product data and all related project documents to be accessed, viewed, and edited

### Cadra Options

**CadraWorks** - an integration product that tightly couples Cadra and SolidWorks

**CadraDirect** - reads and writes directly to industry leading software including CADAM, CADD5, DWG, DXF, IGES, and reads CATIA and MICROCADAM

**CadraRaster** - a raster-to-vector conversion utility for converting paper drawings into Cadra files

**Cadra Autogeometry** - an easy to use macro programming language

**CadraEDM** - manages the workflow and documents of an Engineering department, which may include Cadra files

## Requirements and Licensing

CadraLIB is an add-on option for use with the Cadra Design Drafting application, which runs under a license management system. Under the license manager, applications can run on single systems or local and wide area networks. License management lets you configure your system for maximum resource usage while minimizing software costs. Alternately, Cadra may also be licensed utilizing the Globetrotter License Manager FLEXlm.

## Platforms

Cadra Design Drafting operates on PC's running NT, 2000 and XP Professional, as well as UNIX workstations running HPUX or SUN Solaris.

## For More Information

To contact your local SofTech representative, call us at 1-800-800-3702 (Int'l +1 978 640 6222), e-mail us at [softech-sales@softech.com](mailto:softech-sales@softech.com) or visit us on the Web at [www.softech.com](http://www.softech.com).



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