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ASCON was founded in 1989 and became one of the first CAD/AEC/PLM developers and integrators on the Russian and CIS member countries market.

1989–1992 ASCON released first KOMPAS-Graphic versions for the automation of design and engineering works. It was successfully used in machine-building design, in civil engineering design, at drawing up various plans and diagrams.

1997–2000 – KOMPAS-3D provides basic framework for 3D solid Parametric modelling, 2D drafting, design and release of documentations.

At present
Today ASCON is a dynamic company employing more than 500 highly qualified specialists. The company operates over 60 offices and dealer centers in major industrial regions of Russia, CIS and worldwide. Each company branch provides a full range of services in consulting, personnel training and software installation, integration and support.

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# Table of Content

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>KOMPAS-3D – CAD solution for 3D Solid Modeling and 2D Drafting</td>
<td>4</td>
</tr>
<tr>
<td>KOMPAS-Graphic – 2D Drafting and Design</td>
<td>6</td>
</tr>
<tr>
<td>Pipelines 3D – Pipes and Tubes</td>
<td>7</td>
</tr>
<tr>
<td>The Steel Structures 3D</td>
<td>7</td>
</tr>
<tr>
<td>BOM Wizard</td>
<td>8</td>
</tr>
<tr>
<td>Template Manager</td>
<td>8</td>
</tr>
<tr>
<td>Standard Parts library</td>
<td>9</td>
</tr>
<tr>
<td>TraceParts Standard Parts for KOMPAS-3D</td>
<td>9</td>
</tr>
<tr>
<td>Animation</td>
<td>10</td>
</tr>
<tr>
<td>Photorealistica – Rendering Application</td>
<td>11</td>
</tr>
<tr>
<td>Analysis of Kinematic and Dynamic – Universal Mechanism Express</td>
<td>12</td>
</tr>
<tr>
<td>APM Studio FEM – CAE for mechanisms designed in KOMPAS-3D</td>
<td>13</td>
</tr>
<tr>
<td>Unwrap Application</td>
<td>13</td>
</tr>
<tr>
<td>KOMPAS-Macro</td>
<td>14</td>
</tr>
<tr>
<td>eCAD-KOMPAS-3D converter</td>
<td>14</td>
</tr>
<tr>
<td>3D-Model Recognition System</td>
<td>14</td>
</tr>
</tbody>
</table>
KOMPAS-3D – 3D Solid Modeling and 2D Drafting

KOMPAS-3D is intended for creating three-dimensional associative models for individual parts and assembly units containing both original and standardized structural elements. The parametric technology allows quickly to obtain models for typical products basing on a once designed prototype. Numerous service functions facilitate solving auxiliary designing and production maintenance problems.

A key feature of KOMPAS-3D is using of its own mathematical core and parametric technologies developed by ASCON specialists.

The basic task being solved by the system is modeling of products aimed considerably to reduce period of their designing and to launch them into production as fast as possible. KOMPAS-3D features that make it possible are as follows:

- Fast creating of engineering and design documentation, necessary for production output (assembly drawings, BOM, detail drawings etc.);
- Translating geometry into design applications;
- Translating geometry into control-program development kits for NC-controlled equipment;
- Creating additional images (i.e., for catalogue creation, for creating of illustrations of manuals etc.)

Export and import tools (KOMPAS-3D supports IGES, SAT, XT, STEP, VRML formats) provide functioning of complexes containing various CAD/CAM/CAE systems.

Product modeling in KOMPAS-3D can be carried out by various methods, namely: down-top modeling (using finished components), top-down modeling (designing components in the context of a specific design), modeling based on a layout outline drawing (for example, on a kinematic diagram) or a combination of modeling methods. Such ideology provides obtaining easily modifiable associative models.

The system has a powerful functional for project management including several thousand sub-assemblies, parts and standard products. It supports all the capabilities of three-dimensional solid-state modeling that have become a standard for medium-level CAD/CAM design:

- Boolean operations on typical shape-generating elements;
- Advanced 3D curves;
- Advanced surfaces and shape modeling enables user to design more complex, ergonomic and easy to use products. Working with various surfaces is supported: by point grid, by network of curves, ruled surfaces, extruded, lofted surfaces, sweep surfaces, and revolve. Creating new geometry or importing and manipulating new surfaces is easy and intuitive;
- Associative setting of elements parameters;
- Construction of auxiliary straight lines and planes, spatial curves (broken lines, splines, various spirals);
- Creation of structural elements, i.e. chamfers, fillets, holes, stiffness elements, thin-walled shells;
- Special possibilities facilitating the construction of foundry moulds, i.e. pattern draft, joint lines, cavities according to the part shape (including those with the setting of shrinkage), scaling of bodies with the set coefficient of scaling concerning the selected point;
- Functional for sheet material modeling – commands for creating of sheet body, bends, holes, louver, fillets, punching(stamping) and cuttings in sheet body, caps closing, and also for unwrapping of obtained sheet body (including creating associative drawing of unwrapping);
- Creation of any shape-generating arrays and assembly components;
- Inserting standards products into the model from a library, generating user model libraries;
- Component modeling in the context of assembly, relative determination of parts comprising the assembly;
- Imposition of mating for assembly components (in doing so, a possibility of automatic imposition of mating considerably increases the rate of assembly creation), mechanical mates of assembly components;
- Detection of the interpenetration of parts;
- Special tools to simplify the work with large assemblies — different types of components loading of the assembly accelerate loading of huge assemblies more than 5-7 times;
- A flexible editing possibility of parts and assemblies, including with characteristic points;
- Redetermination of any element parameters at any designing stage causing a re-construction of the whole model.

Special attention is paid for providing of comfortable and fast data exchange with third-party CAD systems, used by a customer. KOMPAS-3D contains different converters for data exchange with third-party CAD systems, engineering calculations and analysis, part-program creation etc. Users of KOMPAS-3D get most of data translation functions for free. These functions include:

- Reading and writing of graphics files in formats DXF, DWG, IGES®;
- Reading 3D-model files from IGES®, SAT, XT, STEP formats;
- Writing 3D-model files to IGES®, SAT, XT, STEP, VRML and STL formats;
- Writing BOM to DBF and Microsoft Excel formats;
- Writing KOMPAS documents to different bitmapped formats (TIFF, GIF, JPEG, BMP, PNG, TGA);
- Reading and writing ASCII (DOS), ANSI (Windows) text file formats, reading RTF files;
- Writing 3D-models, drawings and BOM to e-Drawings.

The table of supported formats

<table>
<thead>
<tr>
<th></th>
<th>2D drawings</th>
<th>3D modeling</th>
<th>Text documentation, BOM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Import</strong></td>
<td>DXF, DWG, 2D IGES®, TIFF, GIF, JPEG, BMP, PNG, TGA</td>
<td>DXF, DWG, IGES®, SAT, Parasolid, STEP</td>
<td>ASCII (DOS), ANSI (Windows) text file, RTF files, TIFF, GIF, JPEG, BMP, PNG, TGA</td>
</tr>
<tr>
<td><strong>Export</strong></td>
<td>DXF, DWG, 2D IGES®, e-drawing, TIFF, GIF, JPEG, BMP, PNG, TGA;</td>
<td>IGES®, SAT, Parasolid, STEP, VRML, STL, e-drawing, TIFF, GIF, JPEG, BMP, PNG, TGA;</td>
<td>ASCII (DOS), ANSI (Windows) text file, RTF, DBF, Microsoft Excel, TIFF, GIF, JPEG, BMP, PNG, TGA;</td>
</tr>
</tbody>
</table>
KOMPAS-Graphic – 2D Drafting and Design

KOMPAS-Graphic successfully used in machine-building design, in civil engineering design, at drawing up various plans and diagrams.

KOMPAS-Graphic drawing editor offers broadest capabilities for automation of design and engineering works in various industry branches. It is successfully used in machine-building design, in civil engineering, at drawing up of various plans and diagrams. KOMPAS-Graphic can be used as a drawing and outline design module being fully integrated into KOMPAS-3D or as an independent product fully covering tasks of 2D-designing and release of documentation.

Graphical document import/export tools (KOMPAS-Graphic supports DXF, DWG, IGES formats) allow arranging of data exchange with allied companies and customers using any drawing and graphical systems.

The whole KOMPAS-Graphic functional is aimed at fast creating of high-quality drawings, diagrams, calculation and explanatory notes, specifications, instructions and other documents. Following elements are provided for users:

- A well thought-out and convenient interface making designer’s work fast and enjoying;
- A multidocument working mode for operations with drawings;
- Various methods and modes of construction of graphical primitives (including orthogonal drawing, grid snapping, etc.);
- Order management of graphical object drawing;
- Power tools for creation of parametric models for typical parts or assembly units being most often used;
- Creation of typical fragment libraries without any programming;
- Any styles of lines, shading, texts;
- Numerous methods of dimensioning and process notation;
- Automatic selection of tolerances and deviations;
- Fast access to typical texts and designations;
- Built-in text editor with spell checking;
- Built-in table editor.

KOMPAS-Graphic will automatically generate associative types of three-dimensional models (including cuts, sections, local cuts, local views, views along arrow, views with a break). All of them are associated with the model, i.e. any changes in the model will result in changes in the drawing image. The standard views will automatically be constructed with projection links. The main drawing caption data (designation, description, weight) are synchronized with the three-dimensional model data.

Locomotive drawing designed in KOMPAS.Graphic by “Kolomensky Zavod” PJSC, Russia
Pipelines 3D – Pipes and Tubes

Pipelines 3D is a specialized application for KOMPAS-3D software; it is intended for automation of routine works on pipelines design. The library is perfect for using in machine building area and for designing utility networks.

The application allows:
- Creating routes and performing different operations with them;
- Arranging pipeline’s elements.

Pipelines can be created in the following modes:
- By existing routes;
- By existing in the document paths or by their elements;
- In arbitrary mode.

The application also allows:
- Arranging elements and setting certain type of coupling for each element;
- Creating different insets in pipes;
- Grooving of selected pipe coupling;
- Rearranging bearing faces;
- Editing diameter and wall thickness of created pipelines.

The application can use components manually created by user and components from Standardized Parts catalogues as standard pipeline’s components.

Sets of standard elements are included in the library for the purpose of the familiarization:

- A pipe with unrestricted parameters (user can set necessary designation, external diameter and wall thickness when designing);
- A pipe set via integrated table of variables;
- A pipe set via the Materials and stock items reference;
- An outlet set via integrated table of variables;
- Outlets from Standardized parts reference;
- A set of T-branches in the package analogous to outlets.

The Steel Structures 3D

The Steel Structures 3D is a specialized application for KOMPAS-3D software. It is intended for automation of design process of metal constructions from metal rolling profiles. The library is intended for using in the machine building area and for designing steel frameworks.

The Steel Structures 3D application allows create frameworks on the basis of trajectories and the selected profiles.

The following objects can be set as trajectories:
- Straight-line segments of sketches;
- Polyline segments;
- Straight-line edges of solids.

Profiles can be selected from template container. The structure’s position can be set or modified. Easy editing allows changing parameters of already created objects of Steel Structures 3D library such as structure and trimmed or extended objects.

The Steel Structures 3D creates report on selected objects. The report can be previewed and objects can be grouped by their properties. The report can be saved as KOMPAS-3D document or as independent file of table of Microsoft Excel or Open Office.

Steel Structures 3D is perfect solution for using in the area of machine building and designing of steel frameworks.
BOM Wizard

BOM Wizard allows creating different types of customized BOMs, including bulletin and other tabular documents and this application is fully integrated into KOMPAS-3D. BOM can be associated with an assembly drawing (with one or several of its sheets) and 3D-assembly.

Automatic data transmission from drawing or model to BOM or from BOM to associated documents is available. Assembly-component (standardized parts, parts etc.) item numbers are transferred from BOM to drawing. Numbers of zones, containing images of appropriate parts of assembly are transferred from assembly drawing to BOM. Name, designation, mass and other data are transferred from parts and assembly units to BOM. If assembly drawing contains standardized part images from application libraries than info about the images will be transferred to BOM.

BOM Wizard supports filling of items and sub items and standard line sorting within the items. Line sorting rules on default satisfy the standard, if it is necessary, they can be modified by user. Parameters and settings variety, especially user forms use, allows creating not only BOMs. BOM Wizard tools are excellent for working with different bulletin, specifications, catalogs and lists: their lines can be numbered, sorted, associated with documents and graphical objects etc. It is possible to create BOM bulletin, referential document bulletin, bought article bulletin, communication charts, changes registration lists and other documents by combining of different BOM parameters.

Template Manager

Template Manager is intended for creating, maintaining and use of customized template libraries when working in KOMPAS-3D. The application will allow KOMPAS users to create a wide range of KOMPAS-3D thematic libraries and fill them with necessary for working objects (templates).

User can set to template the variable from connected MS Excel table when pasted template to KOMPAS-3D document. A template can be pasted to KOMPAS-3D document as a set of objects (lines, arcs, curves etc.), as a library macro element or component which can be edited with Template Manager tools, as a part or an assembly, which can be edited with KOMPAS-3D tools; and others.

The Template library can be completed by users’ details, fragments and parametric tables, linked to each other. One MS Excel document may correspond to several parts or fragment files from Template Library.

Template Manager requires Microsoft Excel or OpenOffice.org Calc installed.
Standard Parts library

Standard Parts library contains standard parts according to DIN and ISO standards. The library contains 3D models and 2D drawings of standard parts and structural elements both for KOMPAS-3D and KOMPAS-Graphic.

Standard Parts library allows:
- Fast searching of standard parts with multiple variations.
- User can also search for and replace parts with others that he specifies;
- Setting key characteristics of a standard part in any order;
- Measuring geometrical characteristics of KOMPAS-3D model (distance, length, diameter, a corner) and setting them as key characteristics;
- Working with “Favorites” – list of often used standard parts that the user has bookmarked so that the user can quickly return to them;

New database supplied with the library contains fasteners according to DIN and ISO standards

TraceParts Standard Parts for KOMPAS-3D

KOMPAS-3D includes direct access to TraceParts Library – one of the largest mechanical part catalogues in the world, and feature to import more than 100 million 3D CAD models and 2D drawings, containing European-based and other parts suppliers in the tooling, machinery, aerospace, automotive and many others industries. Launch TraceParts directly from KOMPAS-3D and the selected parts will be automatically inserted into your assembly as native 3D models.

TraceParts library with catalogs of manufacturers and standard parts, coming from all the leading parts suppliers, is now directly accessible from KOMPAS-3D – the selected parts are available in the KOMPAS native format and automatically inserted into the current assembly as native 3D models. All the advantages of this library in a combination with powerful solution for professional parametric 3D modeling and 2D drafting, KOMPAS-3D, to allow engineers, designers and other KOMPAS users considerably to increase productivity and drawing accuracy by using the parts already available in TraceParts catalogs.
Animation

Animation is a standard application for KOMPAS-3D. The application is designed for motion simulation (animation) of product designed with KOMPAS-3D three-dimensional solid modeling solution.

The application allows:

- Simulating of real-work motion of product’s component parts (product’s parts mating applied during 3D-assembly developing process can be used). The Library allows setting translational displacement of component parts as soon as their rotary motion for these purposes;
- Automatic detecting of possible parts’ collisions (concussion of the parts) during motion process for design errors detection;
- Visual emulating assembling-disassembling process of the product for use in interactive technical manual;
- Creating of sequential mechanism’s attitudes diagram – “kinetic-diagram” (number of sequential frames in format “frw” – KOMPAS-Graphic’s fragments format);
- Creating video file of product motion in AVI format. Playback available both from current animation frame and whole animation.

Animation process consists of sequential steps. Different types and parameters of part’s motion available for setting during each step of animation (velocity, rotation frequency, time). Animation process scenario saves in standard XML-format of text files. Animation library not only amends design process’s level including its obviousness and convenience but also intensifies competitiveness of a company during competitive projects development.
Photorealistica – Rendering Application

The application is developed for creating photo realistic images of 3D-model/assembly, developed with KOMPAS-3D. Photorealistica allows creating effective images of the product to use them in presentations and advertising. Interactive rendering mode allows previewing of 3D-model with textures, applied in the scene.

Materials

- Wide set of materials is included (different types of metals, woods, stones, plastics etc).
- Adjustment of material properties, such as color, reflection level, transparency, glossiness and texture.
- Ability to specify materials for assemblies, parts, operations and surfaces.
- Materials, scenes and lightening preview is realized for decreasing time of making photo realistic image.
- Lights and shadows.
- Creating omni lights, spot lights, point lights and distant lights.
- Simple shadow managing, taking into account transparency of objects.
- Setting and adjustment of any light's color and strength.

- 3D-scenes.
- Creating background for better displaying of parts and assemblies.
- Adding wide range of decorations and saving them to 3D-models file.
- Viewing of previously created scenes including lights, background and decorations.
- Standard scene selecting for quick creating of quality image.
- Background import from JPEG, TARGA, TIFF, BMP.
- Text and labels
  - Creating user’s labels and texts for product.
  - Text size, position and transparency adjustment.
  - Ability to add a number of labels and texts to one KOMPAS-3D part, element or face.

Photorealistic image

Image is displayed in separate window of the library Image can be saved to standard (JPEG, TARGA, TIFF, and BMP) format with required resolution. Rendering library allows creating of quality image in KOMPAS-3D long before production output.
Analysis of Kinematic and Dynamic – Universal Mechanism Express

The application is designed for proximate dynamic, kinematic and static analysis of models developed with KOMPAS-3D. The library (add-in) as a standard KOMPAS-3D application is made for design engineers who solve problems of machines and mechanisms in operation. Mechanisms are described as systems of rigid bodies, joints and force elements. 3D-model real-time animation is supported during the simulation process. All necessary dynamic and kinematic variables are available for analysis including coordinates, velocities, accelerations, joint reaction forces, spring forces etc.

The application supports the following features:

- Working with linear or harmonic time-dependent force elements of various types, which are included in a standard database.
- Modeling cam mechanisms and trains of gears by contact force elements.
- Setting uniform, uniformly accelerated/decelerated motions or harmonic oscillations for selected degrees of freedom in kinematic purposes.

Universal Mechanism Express allows:

- Parameterization of force elements as well as kinematic expressions.
- Creating video (AVI) files with simulation results.
- Plotting graphs of any dynamic or kinematic variable.
- Calculation of equilibrium positions; evaluation of natural frequencies and eigenvalues of the model depending on parameters.

- The Universal Mechanism Express add-in allows modeling objects consisting of unlimited number of bodies on basis of 3D-model assemblies designed with KOMPAS-3D. Full KOMPAS-3D models recognition is provided. Mechanism motion and simulation results are displayed in separate windows. The user can get visually both the object motion and dynamic and kinematic variables simultaneously with the simulation process.

Wide range of joints allows creating mechanisms of any complexity. The following types of joints (kinematic pairs) are available:

- Prismatic.
- Revolute.
- Universal.
- Ball and socket.
- 6 degrees of freedom.

The add-In includes about twenty samples of dynamic models showing its abilities in the area of modeling kinematics and dynamics of car suspensions, engines, robots, mechanisms and machines. Help includes detailed information about modeling and step-by-step instructions for all stages of model creating and analysis.

Universal Mechanism Express is designed for proximate dynamic, kinematic and static analysis of models developed with KOMPAS-3D.
APM Studio FEM – CAE for mechanisms designed in KOMPAS-3D

APM Studio is a software intended for calculation and design of machine elements, mechanisms and structures as well as general purpose strength analysis by finite element method. APM Studio FEM includes assemblies preparation tools for calculations, for setting boundary conditions and loads, and also integrated generators of finite-element mesh (both with fixed, and with variable step) and the postprocessor. This functional set allows to work with solid parts and assemblies which can be designed in KOMPAS-3D software, and to analyze the designed model from the point of view of statics, fundamental frequencies, stability and a thermal loading.

Strength analysis of APM Studio FEM unit allows solving linear problems:
- The intense-deformed state (static calculation);
- Static strength of assemblies;
- Stability;
- Thermoelasticity;
- Stationary thermal conduction;
- The dynamic analysis allows:
  - To define frequencies and forms of natural oscillations, including for models with a preload;
  - To perform the calculation of forced vibrations — to present behaviour of system with specified law of alteration of forcing load from the time with animation of oscillating process;
  - To fulfil calculation on chattering of foundations.

Results of calculations are:
- Allocation of equivalent stresses and their components, and also principal stresses;
- Allocation of linear, angular and total displacements;
- Allocation of strains in model components;
- Maps and orthographic epures of allocation of internal force;
- Allocation of contact force in contact allowed band;
- Value of safety factor and the form of loss of stability;
- Allocation of safety factors and number of cycles by yardstick of fatigue strength;
- Allocation of safety factors by yardsticks of flow and strength;
- Allocation of temperature fields and thermotensions;
- Supporting forces in construction legs, and also the cumulative responses adduced to the center of gravity of the model.

Unwrap Application

The application is intended to automate the design of dust, gas and air flues, pipelines and similar parts of sheet material. This add-on automates labour-consuming calculations and constructions and considerably accelerates the speed of creation of working drawing for blanks of such parts.

Unwrap application also allows creating unwrap drawings of selected units with specified precision, calculating product mass, saving coordinates of curves to text file.

The following shapes can be unwrapped by the means of the library:
- Truncated cylinders.
- Different cones (including truncated cones and sloped truncated cones).
- T-branches of different cylindrical and tapered shapes.

Analysis of KOMPAS-3D models by finite element method is a general purpose of APM Studio FEM

Unwrap application for KOMPAS-3D makes sheet metal design even easier
KOMPAS-Macro

A new application named KOMPAS-Macro is included in the KOMPAS-3D package. It allows recording, replaying and storing macros. The macro development environment is Python, which is an object-oriented high level programming language. To develop the initial text of a macro, standard Win API functions as well as specialized KOMPAS-Macro library functions facilitating the development process may be used. Following the development, the software text, or so-called KOMPAS macro is stored in a text file.

eCAD-KOMPAS-3D converter

The 3D circuit board model converter is a specialized module used to import a 3D circuit board model designed in systems like P-CAD and Altium Designer (also named Protel in the past). The converter can read the standardized data exchange IDF format in KOMPAS-3D. The converter works with IDF-files exported from P-CAD (v. 2000-2006), OrCAD (v. 9.X), and Altium Designer.

3D-Model Recognition System

3D-Model Recognition System for KOMPAS-3D is intended for recognition elements of part or assembly, being imported to KOMPAS-3D from another CAD solutions. 3D-Model Recognition System extends opportunities of information exchange between organizations using different CAD, it recovers their 3D-models with comprehensive design tree and considerably saves time for model recognition. This add-on allows full-scale use of part or assembly documents in KOMPAS-3D environment, including its editing.
<table>
<thead>
<tr>
<th>Region</th>
<th>Country</th>
<th>City</th>
<th>Company/Contact Information</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EUROPE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Austria</td>
<td></td>
<td>Mader</td>
<td>IBS-CAD-Coaching</td>
<td><a href="http://www.cad-coaching.com">www.cad-coaching.com</a></td>
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<td>Belarus</td>
<td></td>
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<td><a href="http://www.bevalsky.by">www.bevalsky.by</a></td>
</tr>
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<td></td>
<td>Blije</td>
<td>Tricadselection Netherlands</td>
<td><a href="http://www.tricadselection.nl">www.tricadselection.nl</a></td>
</tr>
<tr>
<td>Bulgaria</td>
<td></td>
<td>Varna</td>
<td>Vintech</td>
<td><a href="http://www.vintech.bg">www.vintech.bg</a></td>
</tr>
<tr>
<td>Czech Republic and Slovakia</td>
<td></td>
<td>Sluzovice</td>
<td>CADservis, s.r.o.</td>
<td><a href="http://www.kompas-3d.cz">http://www.kompas-3d.cz</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hranica</td>
<td>TECHSOFT s.r.o</td>
<td><a href="http://kompas.tcad.sk">http://kompas.tcad.sk</a></td>
</tr>
<tr>
<td>Finland</td>
<td></td>
<td>Lahti</td>
<td>NC-Tuote Oy (NC-Product Ltd.)</td>
<td><a href="http://www.nc-tuote.fi">www.nc-tuote.fi</a></td>
</tr>
<tr>
<td>France</td>
<td></td>
<td>Loches</td>
<td>OPAL Ingénierie-Département OpenCAD</td>
<td><a href="http://www.kompas3d.fr">www.kompas3d.fr</a></td>
</tr>
<tr>
<td>Germany</td>
<td></td>
<td>Erfurt</td>
<td>SATTLER media &amp; data systems</td>
<td><a href="http://www.kompas3d.de">www.kompas3d.de</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lindau</td>
<td>IBS-CAD-Coaching</td>
<td><a href="http://www.cad-coaching.com">www.cad-coaching.com</a></td>
</tr>
<tr>
<td>Great Britain and Ireland</td>
<td></td>
<td>Devon</td>
<td>Sprut Technology (UK) Ltd.</td>
<td><a href="http://www.kompas3d.co.uk">www.kompas3d.co.uk</a></td>
</tr>
<tr>
<td>Italy</td>
<td></td>
<td>Fasano</td>
<td>KAD3 S.r.l.</td>
<td><a href="http://www.cadplm.com">www.cadplm.com</a></td>
</tr>
<tr>
<td>Norway and Sweden</td>
<td></td>
<td>Halmstad J.L. Systems</td>
<td>Halmstad JL Systems</td>
<td><a href="http://www.ji-systems.se">www.ji-systems.se</a></td>
</tr>
<tr>
<td>Romania</td>
<td></td>
<td>Timisoara</td>
<td>IntelITECH</td>
<td><a href="http://www.kompas-3d.ro">http://www.kompas-3d.ro</a></td>
</tr>
<tr>
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