

New in Vintech RCAM-Pro v10 (from 2019)

1. The following new functions are added in **Vintech RCAM-Pro 10** :
 - 1.1. Advanced capabilities for import of multiple parts from a single CAD file,
 - 1.2. Advanced import of parts from CAD blocks,
 - 1.3. Automatic collision avoidance,
 - 1.4. Advanced **undo** for paths and blocks,
 - 1.5. Changing the technology of the nested parts by pattern,
 - 1.6. Creating common cuts for parts on the layout, including the ones nested in others.
 - 1.7. Searching part in zone,
 - 1.8. Automatic change of machine/technology for a separate layout from a project,
 - 1.9. Preview of used and unused blocks in the Project Gallery,
 - 1.10. New features for working with paths
 - < Start/End point with line lead-in to the middle of the bridge,
 - < Double lead-in from the middle between two parts,
 - < Optimized cutting of the scrap skeleton for laser cutting
 - 1.11. Possibility for automatic splitting of a nesting layout and programming two settings using two methods:
 - < first setting – drilling holes with drilling, boring machine and second setting – thermal cutting processing,
 - < first setting – thermal cutting processing of the contours of the nested parts and second setting – drilling holes of each part with drilling, boring machine.
2. **A post-marking functionality** is added in **Vintech RCAM-Pro** and **Vintech NCV**
 - 2.1. The post-marking is used to mark the lot number of the plate with the texts for identifying the part, product, order on specified parts from the nesting layout.
 - 2.2. The post-marking is marking with text input into the NC program by the operator immediately before processing.
 - < The post-marking text can be combined with a text generated from Vintech RCAM-Pro.
 - < The text is automatically converted by Vintech NCV into NC commands.
 - < The marking NC commands are generated using a separate postprocessor for each CNC machine.
 - 2.3. The location and orientation of the post-marking text are specified by entering a postmarking tag:
 - < in the CAD geometry of the part, from where it is imported in Vintech RCAM-Pro,
 - < at a fixed position on the part set in Vintech RCAM-Pro.
 - 2.4. The post-marking tag can be a special text or a graphic object. A setting for special post-marking text is added in Vintech RCAM-Pro.
 - 2.5. A continuous engraving font has been added for plasma processing.
3. A new **library Vintech rBI for batch import** of parts by specification has been developed.
 - 3.1. The import specification can be in an XSLX spreadsheet or in CSV structured text.
 - 3.2. It is possible to import the geometry of the parts multiple times per a single specification.
 - < The capabilities for identifying parts from ungrouped geometry are extended,
 - < The capabilities for identifying parts from geometry grouped in CAD blocks are extended,
 - < The standard 2D CAD blocks, saved as DXF are imported as geometry with parts' attributes. The attributes are name, order, material, thickness.
 - < An import of parts from a DXF file with CAD blocks created as macro elements in КОМПАС-График is developed.
 - 3.3. The option for the user to associate parts from CAD files with specification positions created in an ERP system has been added to the batch import module
4. Advanced functionality of **the Vintech AMT module for automatic common cuts** with parallel torches of long and narrow „band“ type parts.
 - 4.1. The parts for common cuts can:
 - < have holes,
 - < be with different length.
 - 4.2. The creation of common cuts is done interactively.
 - 4.3. Cross cutting of the adjacent parts is done with the leading torch.
 - 4.4. **The Height Tracking Point (Probing Point) can be moved along the cut to avoid collapsing of the torches at the beginning of the longitudinal cut.**

New in Vintech RCAM-Pro v9 (2016-2019)

1. **Vintech RCAM-Pro 9** is a native 64-bit application.
It is installed on 64-bit operating system and works with projects, for which the following are needed:
 - < Extended RAM,
 - < faster nesting.Vintech RCAM-Pro 9 can be installed on 32-bit operating systems as a 32-bit application.

2. **Vintech RCAM-Pro 9** provides new functions for:
 - 2.1. Work with galleries
 - < New Blocks gallery with editing functions,
 - < new functions in Parts gallery for group or single editing of technological attributes:
 - limiting the nesting in holes,
 - management of mirror and common nesting,
 - editing orders.

 - 2.2. Extended import of CAD geometry
 - < Editing of part geometry with integrated external CAD system,
 - < export of filtered part geometry to DXF file
 - < import from DWG file.

 - 2.3. Nesting management by orders
 - < Color visualisation of parts by order,
 - < exclusion/inclusion of parts for nesting, according to order,
 - < nesting by part priority.

 - 2.4. Automatic change with one click on:
 - < Kerf,
 - < machine, carriage/station, tool, regime, postprocessor.

 - 2.5. Lead-Ins/Lead-Outs by paths
 - < Ignition at the edge and outside the plate,
 - < Lead-In with arc,
 - < mass editing of lead-ins/lead-outs and gaps,
 - < lead-in with „L-lock“, „L-lock“ on path,
 - < „eyelet“ on path and lead-in from „eyelet“,
 - < new bridge type- “semi-bridge”
 - < lead-in from the corner of an adjacent path

 - 2.6. Defining two qualities of the material assortment in the used part of the plate.

 - 2.7. Work with Usable Remnants (UR)
 - < Applying margins on an UR,
 - < defining an UR of UR with margins,
 - < new type of UR – Remnant to an order

 - 2.8. Batch mode nesting with nesting control with or without paths and route, with cutting of UR and marking

 - 2.9. NC programs setup
 - < Test points (optional) along the border of UR for preliminary walk through,
 - < assigning an end point of the NC program.

 - 2.10. Improvement in different functions
 - < Tracing by parts
 - < interactive nesting
 - < common cuts
 - < part orientation
 - < pre-piercing of start holes
 - < priorities of the orders for nesting
 - < removing the marking along with zone
 - < selection and visualisation of contours without paths
 - < switching on/off parallel cutting, clean up, marking and processing by points, in the NC panel
 - < save an UR, created in a layout, as a plate in the project and in Plates dataset

 - 2.11. The library Vintech rSales for pricing and offering is part of the Vintech RCAM-Pro 9 bundle.
Functions for pricing and offering are added
 - < Pricing of processing taking into account the machine

- < extended capabilities for reporting scrap
- < two qualities/prices of the used part of a plate.

2.12. Since 01.06.2017 the library Vintech rPipe for design of unfolds of parts from pipe connections is part of the Vintech RCAM-Pro 9 bundle.

3. Vintech NCV

- < Working with CNC machines profiles,
- < Improved verification of NC programs with subroutines for Trumpf and Mazak lasers.

4. Product structure of the Vintech v9 CAM system

- < Vintech RCAM-Pro- CAM system for true shape nesting and NC programming,
Optional add-on Vintech RCAM-Pro modules:
 - Γ Vintech rBevel- for bevels and NC programming for plasma and oxy-fuel bevel cutting,
 - Γ Vintech rDrill- for technology for drill-boring processing of holes, combined with thermal cutting.
- < Vintech Pipe - CAD/CAM system for NC programming of 2D pipe cutting machines.
- < Vintech NCV- verifier of NC programs for thermal cutting,
- < Vintech Duct- CAD/CAM system for parametric design and NC programming of orders for unfolds of fittings of HVAC systems,
- < Vintech NES (Nesting Execution System) – system for warehouse management and true shape nesting production.

New in Vintech RCAM v8 (2014-2015)

1. Product structure of Vintech RCAM v8

- < Vintech RCAM-Pro - CAM system for true shape nesting and NC programming,
Optional add-on Vintech RCAM-Pro modules:
 - Γ Vintech rBevel- for creating bevels and NC programming for plasma and oxy-fuel bevel cutting,
 - Γ Vintech rDrill- for creating technology for drill-boring processing of holes, combined with thermal cutting.
 - Γ Vintech rSales- pricing and offering of true shape nesting.
- < Vintech RCAM 8 – a bundle of the CAM systems Vintech RCAM-Manager, Vintech RCAM-Pro и Vintech NCV.
- < Vintech RCAM-Duct- CAD/CAM system bundle for parametric design and NC programming of orders for unfolds of fittings of HVAC systems,
- < Vintech RCAM-Pipe - CAD/CAM system for NC programming of 2D pipe cutting machines.
- < The distribution of Vintech RCAM-Master has been stopped.

2. Vintech RCAM-Pro 8

- < New Parts gallery and parts functions
- < extended part import with CAD splitter,
- < interactive extend/trim of plates,
- < chain cutting – automatic and interactive,
- < new bridge types – negative and corner,
- < improved work with Usable remnants – step cutting added,
- < new capabilities for management of the automatic cutting of tags and bridges,
- < improved automatic defining of start/end point for internal paths,
- < improved work with materials with certificates, heat No. and plate standards,
- < Blocks dataset supports full technology in block.

3. Vintech rBevel

- < extended and fully-functional management of bevels,
- < technology points on paths,
- < extended management of processing external and internal corners,
- < processing with sweep

4. Vintech NCV

- < Verification of programs and program packages,
- < DNC for programs and program packages.

New in Vintech RCAM v7 (2013-2014)

1. New in the product structure of Vintech RCAM

- Γ Equalized basic functionality of Vintech RCAM-Pro and Vintech RCAM-Master,
- Γ the distribution of Vintech RCAM-Lite and Vintech RCAM-Xpress has been stopped,
- Γ Vintech RCAM-Manager v1.0 – Specialized system for management of the preparation of orders and processing plans for true shape nesting and NC programming.

2. Vintech RCAM-Pro 7

- < New Project gallery for working with plates and nesting layouts,
- < Project navigator added to improve the user interface,
- < unique coloring of parts and blocks
- < extended capabilities for fixing CAD geometry,
- < import and break-down of multiparts,
- < added DSTV and SVG formats for import of parts,
- < extended automatic nesting: mirror, by pairs, with technology,
- < new processing technology management functions: interactive chain cutting, including chain cutting with circumventing,
- < change in parametric macro – direct value input in the dimensions of the drafts,
- < setting and reporting the number of layouts in a package in reports.
- < extended capabilities of settings and datasets

3. Vintech RCAM Manager

- < Management of the production preparation process – from accepting the order to loading NC programs in the CNC controller,
- < Control and monitoring of each part, order, job, nesting layout and NC program during the process,
- < Automatic nesting by jobs from order.

VINTECH - Your partner for CNC thermal and jet cutting of sheet material!

VINTECH is author and creator of the **Vintech RCAM** CAM system:

Vintech RCAM-Pro

CAM system for true shape nesting and NC programming,

Vintech Pipe

CAD/CAM system for NC programming of 2D pipe cutting machines,

Vintech NCV

System for verification of NC programs for thermal cutting,

Vintech Duct

CAD/CAM system for parametric design and NC programming of orders for unfolds of fittings of HVAC systems,

ViNES

MES system for warehouse management and true shape nesting production

The development of **Vintech RCAM** CAM system is based on IT excellence and more than 36 years of experience in the integration of effective CNC/CAM solutions.

We create software for managing Your future!