Parts list

The parts list is a central element in product data management.

It describes the complete composition of a product and lists the components required for it. This makes it an essential basis for manufacturing companies. Parts lists are important for areas such as production control, parts procurement, quality control and product liability, as they ensure that the right components are installed and that the right materials are procured, stored and provided (see also *Wikipedia: parts list*).

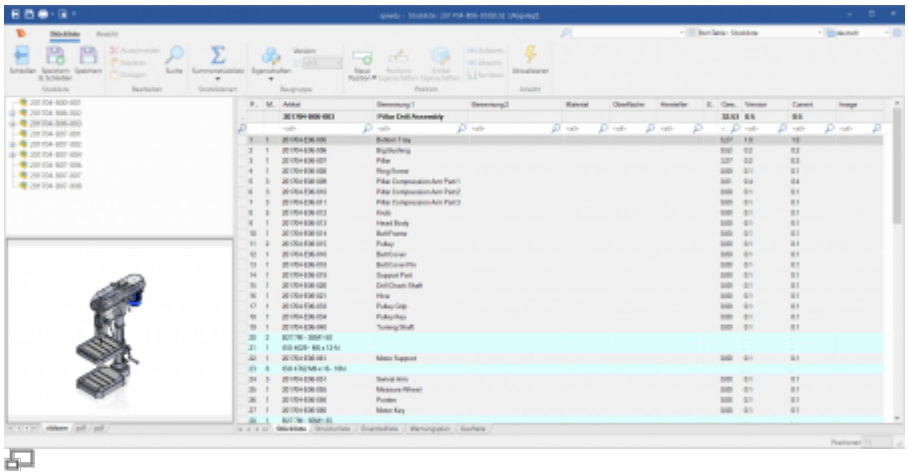
The parts list module *speedyBOM* of speedyPDM automatically adopts parts lists that are created in CAD applications from 2D designs or 3D models. In addition, parts lists can also be manually assigned to an article if required.

Important functions of the parts list module

- Automatic creation of parts lists from CAD data
- Support of different display types:
  - Normal parts list (modular parts list)
  - Sum parts list
  - Structured parts list
- Predefined filtered parts lists (e.g. purchased parts list, spare parts list, ...)
- Flexible filter options via column filters
- Export to various formats (Microsoft® Excel, PDF, ...) or direct print output
- Automated export on status change (e.g. for transfer to an ERP system)
- Output of parts lists as modular, structured or totalised parts lists
- Option for customised formatting

Edit parts list

Ribbon bar: Parts list ⇒ Edit
Document list: Context menu ⇒ Parts list ⇒ Edit
Document list: Double-click on the parts list symbol
Structure: Context menu ⇒ Parts list ⇒ Edit



Parts list window with navigation area

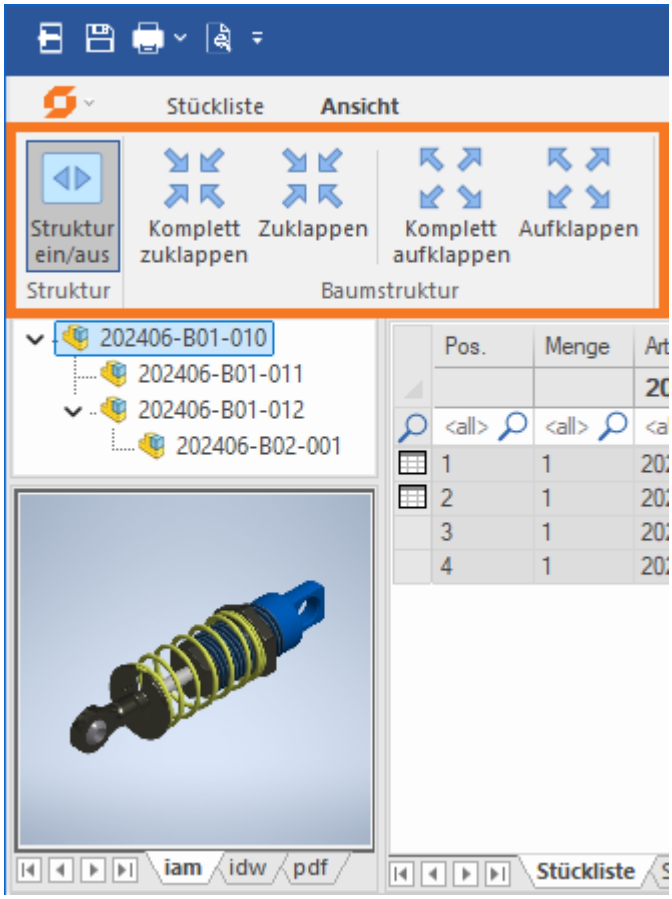
If the parts list is called up in the context of a specific document, the parts list dialogue only displays the parts list of this document. If, on the other hand, the parts list is called up without a selected document or in the context of a container, all documents with parts lists from the selected folder structure are displayed in the parts list dialogue.

Structure area

The hierarchical parts list structure is displayed in the structure area.
The system assembly is at the highest level and is displayed in bold type. Assemblies that are neither installed in the system assembly nor in a sub-assembly and are therefore not part of the hierarchy are also displayed at the top level, but are labelled with a thin font.

Via the tab ***„View“ tab*** tab to show or hide the structure area and preview window. The functions ***„Expand*** and ***Collapse“*** functions are only available if the selected assembly contains a structure with subassemblies.

In addition, all documents with their associated parts lists can also be displayed in the structure area in the context of a container.



Parts list area

The parts list area displays the parts list selected in the structure area.
Tabs are available in the lower area which can be used to switch between different parts list types.
For a better overview, additional information is highlighted using different text or background colours:

Colour	Meaning
Light green	Line grouping
Red colour	Invalid or non-existent document (error message)
Light grey	Write-protected property
Light pink	Properties in the parts list differ from the article master
Light blue	Manual position
Light cyan	Standard or norm part (e.g. toolbox or content centre), not managed
Light yellow	Semi-finished welded part
Grey	Released article
Red	Withdrawn release

Preview

All files and the preview image of the selected item are displayed in the preview window. In addition, a tooltip with a model preview can be displayed by holding down the centre mouse button over an item. It is not necessary to select the item beforehand.

Search

Ribbon bar (parts list): Parts list ⇒ Search
Menu bar (parts list): Search input field

The parts list search allows you to search through all the displayed properties of the parts list items using a number of filters. The search input field can also be used to perform a quick search using these properties.
It is also possible to search directly in the columns and to set column filters.

Column description and language

The display and definition of the columns can be specified via a column description. This allows different column descriptions to be used for a parts list type in order to display the desired view. The selection is made in the ***„View“ tab*** in the ***„Table“*** or via the quick selection at the top right.

In addition, the output language of the parts list can be customised by selecting a different language.

Edit assembly properties

Ribbon bar (parts list): Parts list ⇒ Properties / Assembly properties
Structure (parts list): Context menu ⇒ Item properties

Opens the item properties of the selected assembly for editing.

Edit item properties of the item

Ribbon bar (parts list): Parts list ⇒ Item properties
Parts list area: Double-click on parts list item
Parts list area: Context menu ⇒ Edit item properties of the parts list item
Parts list area: Direct editing in the properties field

Opens the item properties of the selected document from the parts list.

Edit properties of the parts list item

Ribbon bar (parts list): Parts list ⇒ Item properties
Parts list area: Context menu ⇒ Edit item

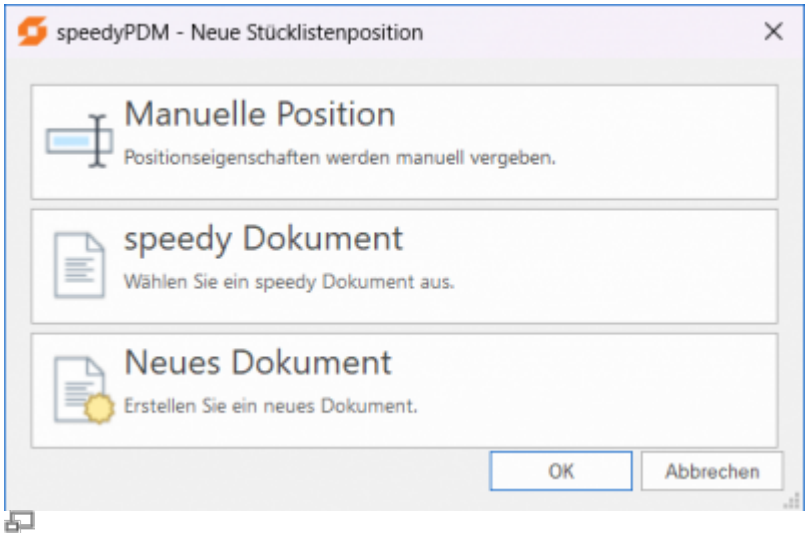
Properties of parts list items such as **item number** and **quantity** can be customised at any time as standard. In addition, further BOM-related properties can be added administratively. CAD-specific configuration parameters can be added in the ***„CAD“ TAB*** tab.

Add manual parts list item

Ribbon bar (parts list): Parts list ⇒ New item
Parts list area: Context menu ⇒ New item

Via the function ***„New item“ function*** function can be used to add manual parts list items. There are three options to choose from:

- **Manual item**
- **speedy Document**
- **New document**



In addition, manual BOM items can also be added in a simpler and faster way:

- **Drag & Drop**
  The desired document via **drag & drop** from the document list into the parts list area. This

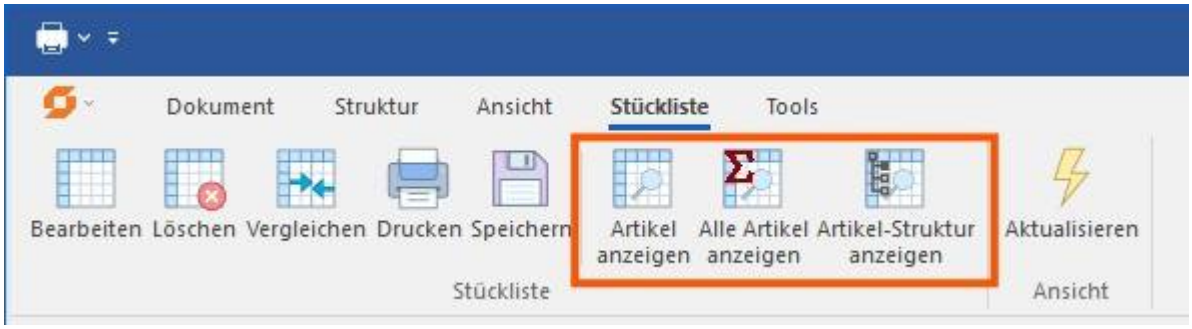
automatically creates a new manual parts list item.

- **Double-click**
  Alternatively, by holding down **[Ctrl]**-key and **double-click** on a desired document in the document list. A new manual parts list item is also automatically created here.

Parts list views

Ribbon bar: Parts list ⇒ Show articles / Show all articles / Show article structure
Document list: Context menu ⇒ Parts list ⇒ Show articles / Show all articles / Show article structure

When working with assembly structures, it can be helpful to display the items in a parts list directly as a search result. In this case, the speedyPDM parts list is not opened. Instead, an overview of the items installed in the respective version is displayed in the document list. Three different views are available for this:



View	Description
Show articles	Shows all items of the first level of an assembly
Show all articles	Shows all articles in the summarised parts list of an assembly
Show article structure	Shows all articles of the entire parts list structure of an assembly

Released items can only be opened for viewing in a parts list view, but cannot be edited. When opening a released item, a message appears informing you that changes can only be made in the item's storage location.

Export

Ribbon bar: Parts list ⇒ Print / Save
Document list: Context menu ⇒ Parts list ⇒ Print / Save
Ribbon bar (parts list): File ⇒ Export / Save as / Print

There are various options for exporting parts lists:

- **Export**

The parts list is exported based on a previously defined export description.
- The export description is defined administratively (see *Input/output description*).
- It is necessary for the export description to be ***„bom“*** in the name so that it is available for selection.
- Depending on the administrative default, either a file name can be specified or this is already defined by the export description.

- **Save as**
  The parts list is saved to an Excel file, for example, using the current column description and the specified output language. You will be prompted to specify a file name and a file type.
- **Print**
  The parts list can be printed using conventional printers. The output on paper is as defined in the print template.
- **Multiple printing**
  All parts lists in the dialogue can be printed simultaneously or after selection with conventional printers. The output on paper is as defined in the print template.

File type	Meaning
.pdf	Portable Document Format
.csv	Comma Separated Value Comma-separated value table, can be read by Excel.
.xlsx	Excel workbook Excel (version 9 or higher) must be installed on the workstation.
.rptsnp	Report snapshot in Ascii format Customised file format for saving printouts.
.rptsnx	Report snapshot in binary format Own file format for saving printouts.
.tif / .tiff	Tagged Image File Format TIFF file with several pages, e.g. used for faxing or long-term archiving.
.xml	Extensible Markup Language
.bom	Byte Order Mark

Import

The parts list import allows you to import either individual parts list items or complete parts lists. The decisive factor here is how the parts list was created.

Parts list was created manually
If a parts list was created manually, either the entire parts list can be imported (this overwrites the existing parts list) or the imported items are added at the end.

Parts list was created by a CAD application
In this case, speedyPDM can only add the items to the existing parts list as manual items.

→ A parts list import is always based on an import description (see Input/output description).
→ The assignment of the values to be imported to the item properties is defined by the import description.

→ The import description can already specify the file type (e.g. .xml, .csv, etc.).
→ For the import description, it is necessary that it is ***„bom“*** in the name so that it is available for selection.

When importing from a .csv file, the 1st line should contain the names of the columns. The 2nd line should contain the parts list header. The actual items therefore start from the 3rd line.

XML import

In order to import parts lists in XML format, they must either already correspond to the speedyPDM import format or be converted to this format.
With the help of XSL, XML files can be converted into other formats or structures. The speedy import can perform this conversion automatically during import. Only one XSL file needs to be created in the directory **...speedy_bin$\config** whose name matches the import description.

Example of an XML parts list file:

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="yes"?>
<speedy>
    <data>
       <bom>
           <head>
              <bom_docno>0210-BG-0000189</bom_docno>
              <bom_pos></bom_pos>
              <bom_qty></bom_qty>
           </head>
           <position>
              <bom_docno>$:0210-ET-0000669:1</bom_docno>
              <bom_pos>1</bom_pos>
              <bom_qty>1</bom_qty>
           </position>
        </bom>
    </data>
</speedy>
```

Bill of material

Ribbon: Bill of material » Bill of material type » Sum BOM on / off

By selecting the command ***„Sum BOM“ command*** command, the current list view is displayed as a quantity BOM or assembly BOM. The quantity BOM summarises all items starting from the current assembly including all sub-assemblies. Normally, a quantity BOM only contains the individual parts of the assemblies and sub-assemblies installed in each case, but if an assembly does not contain any individual parts, the assembly itself is listed in the quantity BOM. The assembly BOM only shows the items that are contained in the currently selected assembly.

Child component list

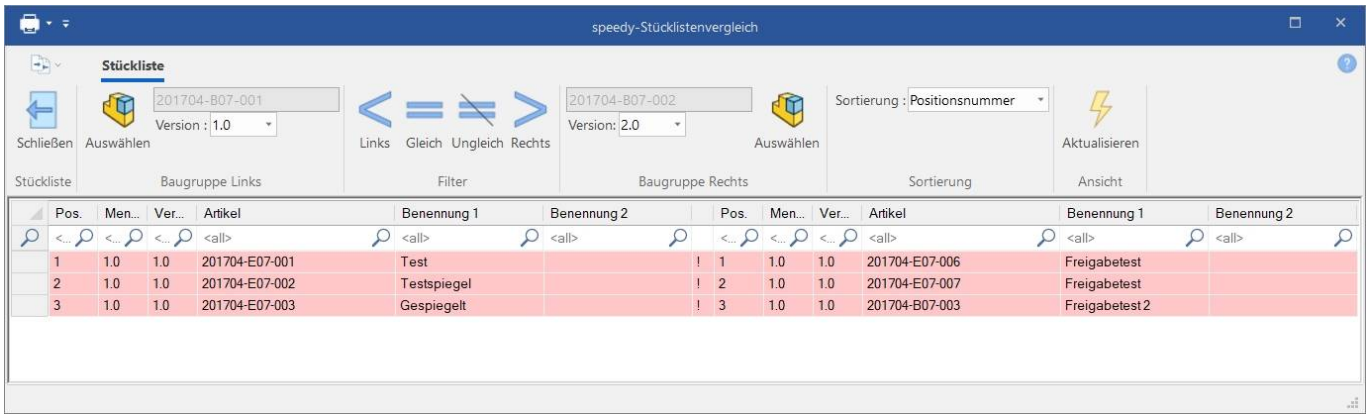
Toolbox Child component list on / off 

By selecting the command ***„Child component list“ command*** the current list view is displayed as a child component list or assembly parts list. The child component list totals all items starting from the current assembly including all sub-assemblies depending on the child component switch in SolidWorks.

Compare parts lists

Ribbon: Parts list » Compare

In speedyPDM there is the possibility to compare parts lists with each other. To do this, either select an assembly in the document list to compare the versions or two assemblies to compare them with each other.



Navigation area

The navigation area displays the parts list structure. The items result from the parts list items of the individual assemblies. These are compared and contrasted with each other. If the same item is installed on the left and right, an equals sign ( is displayed in the centre. If a value of the assembly is incorrect, this value is highlighted in red and an unequal sign (≠) is displayed in the centre. If the items on the left and right are completely different, the entire line is highlighted in red. If a parts list item is only on one side, an arrow is displayed in the centre.

Filter

The list can be filtered using the buttons in the ribbon bar. These filters affect the result of the parts list comparison.

Export

The parts list comparison offers two options for exporting the list:

1. **Save as...** –> The parts list comparison is exported to an .xlsx file (Excel).
2. **Print** –> The parts list comparison can be printed using the normal printer. It is also possible to print the whole thing to a PDF file.

Sorting

Sorting can be used to set whether the comparison should be made according to the item numbers or the articles.

Settings

For the parts list comparison to work correctly, a column description ***„BomTableCompare“*** must be created. This column description is used to set which columns are analysed and displayed on the left and right.

Parts list display

The parts list structure is defined by a column description. Special field formatting can be used for the parts list:

- **Barcode**
- **QR code**
- **Thumbnail**

Barcode

To specify a barcode for an item in the printout of the parts list, define a text with the barcode formatting in the column description of the corresponding cell (see also Column description barcode):

```
barcode={wert, encoding [, penwidth] [, row-height-scale] }
```

Formatting	Description
value	Value to be displayed as a barcode (e.g. document number)
encoding	Barcode type
penwidth	Smallest line width, default value = 1 (optional)
row-height-scale	Scaling of the row height. The row height is calculated from the column width / row height scaling, default value = 4 (optional)

Example of cell property in the column description:

```
=STRCAT('barcode={', $dm_docno, ', code128a, 2, 8}');
```

The type of the column must be set to ***„Formula“*** must be set. The barcode of the document number is now entered in the column in the ***„Code128a“*** is displayed.

The following barcode types are available:

Encoding	Type description
code39	Code 39
i25	Interleaved 2 of 5 (only digits)
code93	Code 93
code128 code128a	Code 128 (a,b,c: autoselection)
code128b	Code 128b (full printable ascii)
code128c	Code 128c (compact form for digits)
ean	EAN

QR code

To specify a QR code for an item in the printout of the parts list, define a text with the QR code formatting in the column description of the corresponding cell (see also Column description-QR code):

```
qrcode={wert[,version, ecLeve, encodeMode, casesensitive]}
```

The column type must be set to ***„Formula“*** must be set. Example of cell property in the column description:

```
=STRCAT('qrcode={', $dm_docno, '}');
```

The QR code of the document number is now displayed in the column.

Thumbnail

A column can display a small preview of the CAD model or drawing, for example. For this purpose, the image formatting is specified in the column (see also Column description-Thumbnail):

```
image={dateiname[,stretch,alignment,transparent]}
```

Value	Description
filename	Full path of the file
stretch	Should the image be adapted to the cell size 0 or 1, default value = 1. This value should always be 1.

Value	Description
alignment	Horizontal and vertical alignment of the image within the cell: Top = 0 Left = 0 Horizontally centred = 1 Right = 2 Vertically centred = 4
transparent	Defines whether the image should be output as transparent. Default value = 1. The colour of the 1st pixel is used as the background colour.

Example:

```
=STRCAT('image={', $dm_fullpath_slddrw, '}');
```

Displays the preview image of the SolidWorks drawing in the column both in the dialogue and in the printout.

Display parts list lines in colour [8.0.1]

Lines of assembly parts lists can be individually adjusted in colour depending on the properties of the item using scripting. For this purpose, the respective column description.
With the script function ***„OnGetRowBkColor“ script function*** script function can be used to adjust the background colour of a row.
With the script function ***„OnGetRowTextColor“ script function*** script function can be used to adjust the text colour of a row.

Both functions have the same structure:

```
Function OnGetRowBkColor(color, dict, dictPos, dictDoc)
   On Error Resume Next
   if dictDoc.Item("ERSATZTEIL")<>"" Or dictPos.Item("ERSATZTEIL")<>"" then
    color = "{255,0,0}"
    OnGetRowBkColor = True
   end if
End Function
```

The example returns the colour red if a spare part indicator is stored in the item/document property. If a colour is to be set, the respective function must return True. As in the example, the colour can either be set as RGB text ***„{R,G,B}„*** or as a numerical value.

Configuration parameters

Parts list

Key	Description
bom.allowzero	Defines whether parts list items that are defined via AutoCAD info points remain in the parts list with the quantity 0 or are removed. Default value:= 1
bom.autosavecolumns	Defines whether changed column widths are noted in the parts list dialogue.
bom.autosorted	Automatically sort parts list
bom.checkrevisions	If the switch is active, the system checks whether documents with an older revision are included when the parts list is created.
bom.sort.properties	Enumeration of document properties that are to be used for sorting in the parts list. e.g: „S_CHARACTERISTIC1;BEN1;BEN2“ It is first sorted according to „S_MERKMAL1“, if entries are the same, they are sorted according to the 2nd criterion „BEN1“, if entries are still the same, they are sorted according to the 3rd criterion, etc.
bom.sort.order	Enumeration of the sorting direction (ascending/descending). 1 := Ascending -1 := Descending The same number of numbers must be specified as properties for [bom.sort.properties].
bom.sort.datatypes	Enumeration of data types for the value comparison of the document properties. (string, boolean, integer, double, date, time, datetime) The same number of data types must be specified as properties in [bom.sort.properties].
bom.includehidden	Display invisible parts in the parts list.
bom.includesuppressed	Also display suppressed parts in the parts list.
bom.import.position.doctype	Document type for position documents if no document type is defined in the import table.
bom.import.position.document.autocreate	Automatically creates a document for a position if no document exists for the defined document number.
bom.bompos.new.editproperties	Defines whether the properties dialogue is edited directly when manually adding positions. Default value:= 1
bom.bompos.prop_manual	Describes the property fields and any default values for manual parts list items. e.g.: „BEN1=;BEN2=;MATERIAL=;EV_TEIL=E;LAENGE=;“
bom.bompos.prop_standard	Describes the property fields and any default values for standard/library parts.
bom.bompos.prop_weldment	Describes the property fields and any default values for weldments.
bom.bomtable.autorefresh	The parts list display is automatically refreshed after the properties of a parts list item have been changed, for example.
bom.bomtable.coldesclang	Language of the column description for parts lists
bom.bomtable.coldescname	Column description for parts lists

Key	Description
bom.bomtable.coldesctype	Column description type for parts lists
bom.bomtable.grouping	Group parts list items by colour. The grouping column is defined in the column description.
bom.bomtable.savepath	Default save path for parts list export
bom.bomtable.show	Show parts list tab.
bom.bomtable.type	Defines the type of parts list that is displayed when the parts list window is opened. The parameter should be deactivated for [view] and [global].
bom.childcomp.coldesclang	Language of the column description for child component lists
bom.childcomp.coldescname	Column description for child component lists
bom.childcomp.coldesctype	Column description type for child component lists
bom.childcomp.grouping	Grouping child component lists
bom.childcomp.includehidden	Include invisible parts in child component list; if not defined, bom.includehidden is used
bom.childcomp.includesuppressed	Insert suppressed parts in child component list; if not defined bom.includesuppressed is used
bom.collected.coldesclang	Column description language for summary BOMs
bom.collected.coldescname	Column description for summary BOMs
bom.collected.coldesctype	Column description type for summarised BOMs
bom.collected.grouping	Grouping BOM items in summarised BOMs
bom.collected.includehidden	Include invisible parts in summarised BOMs; if not defined, bom.includehidden is used
bom.collected.includesuppressed	Insert suppressed parts in summarised BOM; if not defined bom.includesuppressed is used
bom.collected.show	Defines whether the tab should be displayed. \\Default value := 1
bom.collected.properties	A list of properties that are also compared when totalling summary BOMs. Normally, only the document numbers are used when totalling items in order to add up the same items. Further properties can be named in the list, which are also compared and must be identical for items to be totalled. This prevents identical profiles with different lengths being totalled in cutting lists, for example.
bom.color.changed	Cell colour for manually changed parts list items. Default value:={255,192,192} (light pink)
bom.color.invalid	Line colour for invalid parts list items. Default value:={255,64,64} (red)
bom.color.readonly	Line colour for read-only parts list items. Default value:={241,241,241} (light grey)
bom.color.released	Line colour for released parts list items. Default value:={211,211,211} (grey)
bom.color.rowgroup	Row colour for grouping the parts list items. Default value:={210,255,210} (light green)
bom.color.manual	Row colour for manually created parts list items. Default value:={220,220,255} (light blue)

Key	Description
bom.color.standard	Line colour for standard/standard parts. Default value:={220,255,255} (light cyan)
bom.color.weldment	Line colour for weldment components. Default value:={255,255,220} (light yellow)
bom.color.darkratio	Scaling value to make line colours darker if the visual style is dark. Default value:=0.5
bom.dblclick.coldescname	Double-clicking on a parts list item starts the property editing of the item. Depending on the property, either the property of the item or the referenced article is edited. The parameter is used to define whether the name of the column or the properties of the column from the column description should be used for the check. Default value:= 1
bom.edit.ondocumentdosingle	Displays only the parts list of the selected assembly (without the hierarchy of the other assemblies)
bom.filterviews	Enumeration of configuration parameters for the definition of filtered parts lists. e.g.: bom.purchase;bom.laserpart; Two further filtered parts list views are displayed in the parts list dialogue. The properties of the views are each defined under the configuration parameters „bom.purchase.*“ and „bom.laserpart.*“. Further sub-parameters are used to describe a filtered parts list view. See also gefilterte_stueckliste The other sub-parameters are created automatically when the settings are saved if they have been specified in the list.
bom.head.update.breakonzero	As soon as a position in the column is 0, the total is 0.
bom.head.update.properties	Summation of a column when updating the parts list header.
bom.maintenance.childcomp.coldesclang	Language of the column description for the child component list in the maintenance plan
bom.maintenance.childcomp.coldesctype	Column description type for the child component list in the maintenance plan
bom.maintenance.childcomp.grouping	Grouping parts list items of the child component list in the maintenance plan
bom.maintenance.childcomp.includehidden	Include invisible parts in the maintenance plan in the child component list; if not defined, bom.includehidden is used
bom.maintenance.childcomp.includesuppressed	Include suppressed parts in the maintenance plan in the child component list; if not defined bom.includesuppressed is used
bom.maintenance.coldesclang	Language of the column description for maintenance plan
bom.maintenance.coldesctype	Column description type for maintenance plan
bom.maintenance.coldescname	Column description for the maintenance plan. If not defined, bom.collected.coldescname is used.

Key	Description
bom.maintenance.collected.coldesclang	Language of the column description for the bill of materials in the maintenance plan
bom.maintenance.collected.coldescname	Column description for the quantity BOM in the maintenance plan
bom.maintenance.collected.coldesctype	Column description type for the quantity BOM in the maintenance plan
bom.maintenance.collected.grouping	Grouping BOM items in the quantity BOM in the maintenance plan
bom.maintenance.collected.includehidden	Include invisible parts in the maintenance plan in the quantity BOM; if not defined, bom.includehidden is used
bom.maintenance.collected.includesuppressed	Include suppressed parts in the maintenance plan in the quantity BOM; if not defined bom.includesuppressed is used
bom.maintenance.filter	Defines the properties that must be fulfilled by the document for it to appear in the maintenance plan. Filter settings: Property name = Property value Multiple filter properties are separated by a semicolon (;)
bom.maintenance.grouping	Group parts list items in the maintenance plan
bom.maintenance.includehidden	Include invisible parts in the maintenance plan; if not defined, bom.includehidden is used
bom.maintenance.includesuppressed	Insert suppressed parts in the maintenance plan; if not defined bom.includesuppressed is used
bom.maintenance.type	Defines the type of parts list that is displayed when the parts list window is opened. The parameter should be deactivated for [view] and [global].
bom.maintenance.show	Display maintenance plan tab
bom.manual.sortorder	Defines the sort order for sorting the parts list for manual items. The smaller the number, the further forward the documents are sorted.
bom.synchronize.syncproperties	Properties that control automatic synchronisation.
bom.synchronize.properties	Properties that are synchronised.
bom.synchronize.onrelease	Properties that are synchronised on release.
bom.print.draft	Watermark text that is printed on non-released parts lists.
bom.purchase.filter	Defines the properties that must be fulfilled by the parts list item or document for it to appear in the parts list. \\For more details see gefilterte_stueckliste
bom.purchase.label	Name of the tab.
bom.purchase.show	Defines whether the tab should be displayed. \\Default value:= 1
bom.purchase.type	Defines the type of parts list that is displayed when the parts list window is opened. The parameter should be deactivated for [view] and [global].

Key	Description
bom.save.namepattern	File name pattern for saving the parts list. The pattern contains placeholders that are replaced by document properties (e.g.: %dm_title% - use the title of the assembly document as the file name)
bom.save.filterindex	System remembers the file type with which the last files were saved.
bom.save.header	Save parts list header as well when saving.
bom.save.xml.revision.properties	Remembers the properties that were assigned when an XML file was last saved.
bom.showrelease	Parts list only shows released parts.
bom.sparepart.autorefresh	Automatically refreshes the parts.
bom.sparepart.childcomp.coldesclang	Language of the column description for the child component list in the spare and wear parts list
bom.sparepart.childcomp.coldescname	Column description for the child component list in the spare and wear parts list
bom.sparepart.childcomp.coldesctype	Column description type for the child component list in the spare and wear parts list
bom.sparepart.childcomp.grouping	Grouping parts list items of the child component list in the spare and wear parts list
bom.sparepart.childcomp.includehidden	Insert invisible parts of the spare and wear parts list into the child component list; if not defined, bom.includehidden is used
bom.sparepart.childcomp.includesuppressed	Insert suppressed parts of the spare and wear parts list into the child component list; if not defined bom.includesuppressed is used
bom.sparepart.coldesclang	Language of the column description for spare and wear parts list
bom.sparepart.coldescname	Column description for spare and wear parts list
bom.sparepart.coldesctype	Column description type for spare and wear parts list
bom.sparepart.collected.coldesclang	Language of the column description for the quantity parts list in the spare and wear parts list
bom.sparepart.collected.coldescname	Column description for the quantity parts list in the spare and wear parts list
bom.sparepart.collected.coldesctype	Column description type for the quantity parts list in the spare and wear parts list
bom.sparepart.collected.grouping	Grouping parts list items of the quantity parts list in the spare and wear parts list
bom.sparepart.collected.includehidden	Include invisible parts in the spare and wear parts list in the quantity parts list; if not defined, bom.includehidden is used
bom.sparepart.collected.includesuppressed	Include suppressed parts in the spare and wear parts list in the quantity parts list; if not defined bom.includesuppressed is used

Key	Description
bom.sparepart.filter	Defines the properties that must be fulfilled by the document for it to appear in the maintenance plan. Filter settings: Property name = Property value Multiple filter properties are separated by a semicolon (;)
bom.sparepart.grouping	Group parts list items in spare parts list
bom.sparepart.includehidden	Include invisible parts in the spare and wear parts list; if not defined, bom.includehidden is used
bom.sparepart.includesuppressed	Insert suppressed parts in the spare and wear parts list; if not defined, bom.includesuppressed is used
bom.sparepart.show	Show spare parts list tab
bom.sparepart.type	Defines the type of parts list that is displayed when the parts list window is opened. The parameter should be deactivated for [view] and [global].
bom.structure.indent	-
bom.structure.show	Defines whether the tab in the structure parts list should be displayed. Default value := 1
bom.standard.sortorder	Defines the sort order for the parts list sorting for toolbox/content centre items. The smaller the number, the further forward the documents are sorted.
bom.type	Defines the type of parts list that is displayed when the parts list window is opened. The parameter should be deactivated for [view] and [global].
bom.warning.hidden	You can set whether a warning should be displayed if there are still invisible parts in the parts list.
bom.warning.suppressed	You can set whether a warning should be displayed if there are still suppressed parts in the parts list.
bom.weldment.sortorder	Defines the sort order for the parts list sorting for weldment items. The smaller the number, the further forward the documents are sorted.
document.propertyview.bomtable	Defines whether the parts list tab is displayed.

Create neutral formats

When the status of a document changes, neutral formats of the parts lists can also be created automatically.
Parts lists can be created automatically with the following status changes:

- checkin
- pendingapproval
- approve
- release

Key	Description

document.xxx.bom	A list of settings for neutral format creation.
	Each line contains information about:
	Parts list type, column description, file type, parts list extension, filter name, description, language (optional)
	When using this parameter, the following parameters (xxx.bomfiletype, xxx.bomtype, xxx.bomcoldesc) have no effect.
	e.g.:
	`0;BomTable;.pdf;.bom;;Stückliste;`
	`1;BomTableCollected;.pdf;.bomsum;;Summenstückliste;enu`
	Selecting the [...] button opens a dialogue for simple input of the parameters.

document.xxx.bomfiletype	If the parts list is to be automatically saved as an additional file with the article when the status changes, this parameter is used to define the file type(s). Multiple file types are separated by semicolons. The parts list type(s) is/are saved for each specified file type. e.g. [document.xxx.bomfiletype] = ".pdf"
document.xxx.bomtype	The parameter can be used to control which parts list type is created: 0 := Standard parts list (assembly parts list) 1 := Summed assembly parts list (e.g. interesting for welded parts) 2 := Summed parts lists 3 := Child component parts list 4 := Structural parts list
document.xxx.bomcoldesc	Name of the column description to be used for the parts list to be saved. If several types are specified in the [document.xxx.bomtype] parameter, separated by a semicolon, several column descriptions can also be defined. The same number of column descriptions should be defined as BOM types.
document.xxx.createlanguagefiles	Create neutral formats in all defined project languages. A project or customer language can be stored in the project folder. By activating this parameter, a corresponding file is created for each stored project language when creating a neutral format.

If you are working with project languages, you should not use the language setting from the [document.xxx.bom] parameter.

Filtered parts list

Key	Description

bom.<filtername>.filter	Defines the properties that must be fulfilled by the parts list item or document for it to appear in the parts list.
	Filter settings:
	`Eigenschaftsname = Eigenschaftswert`
	Multiple filter properties are separated by a semicolon (;).
	
	Alternatively, a special SQL statement can also be used:
	SQL{*SQL statement*}
	The SQL statement itself can contain any placeholders for individual item or document properties:
	`SQL{SELECT ('<BEST1>'<>'' AND '<LAGERORT>'='')}`
	⇒ The item is displayed if the order description 1 has content and the storage location is empty.

bom.<filtername>.label	Name of the tab in the parts list window.
bom.<filtername>.show	Defines whether the tab is to be displayed in the parts list window. Default value:= 1
bom.<filtername>.type	Defines the type of parts list that is displayed when the parts list window is opened. The parameter should be deactivated for [view] and [global]. For normal filtered parts lists, the administrative default should be 0. However, if the filtered parts list is to be a structured parts list, the value = must be 4, [view] and [global] must be activated.
bom.<filtername>.bomtable.coldescname	Column description for the parts list. If not defined, bom.bomtable.coldescname is used.
bom.<filtername>.bomtable.coldesctype	Column description type for the parts list. If not defined, bom.bomtable.coldesctype is used.
bom.<filtername>.bomtable.coldesclang	Language of the column description for the parts list. If not defined, bom.bomtable.coldesclang is used.
bom.<filtername>.bomtable.grouping	Group parts list items by colour. The grouping column is defined in the column description. If not defined, bom.bomtable.grouping is used.
bom.<filtername>.bomtable.includesuppressed	Also display suppressed parts in the parts list. If not defined, bom.includesuppressed is used.
bom.<filtername>.bomtable.includehidden	Show hidden parts in parts list. If not defined, bom.includehidden is used.
bom.<filtername>.collected.coldescname	Column description for the summarised parts list. If not defined, bom.collected.coldescname is used.
bom.<filtername>.collected.coldesctype	Column description type for the summarised BOM. If not defined, bom.collected.coldesctype is used.
bom.<filtername>.collected.coldesclang	Language of the column description for the summarised BOM. If not defined, bom.collected.coldesclang is used.

Key	Description
bom.<filtername>.collected.grouping	Group parts list items by colour. The grouping column is defined in the column description. If not defined, bom.bomtable.grouping is used.
bom.<filtername>.collected.includesuppressed	Also display suppressed parts in the summarised parts list. If not defined, bom.includesuppressed is used.
bom.<filtername>.collected.includehidden	Display hidden parts in the summarised BOM. If not defined, bom.includehidden is used.
bom.<filtername>.childcomp.coldescname	Column description for the child component list. If not defined, bom.childcomp.coldescname is used.
bom.<filtername>.childcomp.coldesctype	Column description type for the child component list. If not defined, bom.childcomp.coldesctype is used.
bom.<filtername>.childcomp.coldesclang	Language of the column description for the child component list. If not defined, bom.childcomp.coldesclang is used.
bom.<filtername>.childcomp.grouping	Group parts list items by colour. The grouping column is defined in the column description. If not defined, bom.bomtable.grouping is used.
bom.<filtername>.childcomp.includesuppressed	Also display suppressed parts in the child component list. If not defined, bom.includesuppressed is used.
bom.<filtername>.childcomp.includehidden	Show hidden parts in child component list. If not defined, bom.includehidden is used.