18.2. File structure

Element names/codes are case sensitive.

18.2.1. Manufacturing operation

Download an example CSV file from here: Manufacturing operation importer file example

No.	Name	Mandatory	Possible types/values	Description
1	Item Series		Numeric	If left empty, the value will be 'Manual'.
2	Operation Code	✔	Text	The code of the operation. Please note: If it is the code of an existing operation, the following can happen: If the 'override existing' checkbox is checked, the operation will be overridden. If the override existing checkbox is not checked, a content error will be generated and the manufacturing operation will not be imported.
3	Operation Name		Text	
4	Is Outsourceable		Y/N	N - No Y - Yes If left empty, the value will be 'N'.
5	Item Group		Number	The item group code. You can find the Item Group codes in the OITB table. If left empty, the system will use the item group set on the '*Item Group for Operation*' field of the Master Data tab of the Produmex Manufacturing settings.
6	Before Time		Number	Importer converts it to a base time using the *Operation Time UoM* from the row.
7	Safety Time		Number	
8	Setup Time		Number	
9	Job Time	✔	Number	
10	Teardown Time		Number	
11	After Time		Number	
12	Time Base		Number	
13	Operation Break		Integer between 0 and 5	0 - 3 - Allowed 1 - Denied 2 - Allowed WC 4 - Allowed NBP 5 - Allowed WCNBP If left empty, the value will be '3'.

No.	Name	Mandatory	Possible types/values	Description
14	Operation Time UoM		Text	The value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.*
15	Is parallel operation		Y/N	N - No Y - Yes If left empty, the value will be 'N'.
16	Max Parallel Operations		Integer	
17	Allocation window		Number	The importer converts it to a base time using Allocation Window UoM from actual row.
18	Allocation window UoM		Text	The value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.*
19	Min. Job Quantity		Number	
20	Feature	✔	Text	Must be an existing work center feature.
21	Is Mandatory Work Center		N/Y	N - No Y - Yes If left empty, the value will be 'N'.
22	Preferred Work Center		Text	Must be an existing work center feature. If the 'Is Mandatory Work Center' value is Y, this field must be filled.

* In order to use Produmex Manufacturing integrated with Produmex WMS. the UoM must exist in the Units of Measure - Setup (OUOM) standard SBO table as well.

If there is a value beyond 21th column, the row is invalid. A format error message is generated, and the manufacturing operation is not processed.

18.2.2. Bills of Materials

The first character of a row defines the row type and drives the processing of the row. If a comment token was defined, all rows beginning with the given character are skipped.

The following row types are supported:

- H - Header row
- I - Item row
- S - Supplier row
- R - Resource row
- T - Text row

Every other first character, except the comment token, generates an error message.

Download an example CSV file from here: Bills of Materials importer file example

Header row type

It represents the header of the Bill of Materials.

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✔	H	
2	Product No.	✔	Text	Item code of the product/sub-assembly. Must be a valid item code.
3	Planned Average Production Size		Number	
4	Quantity		Number	If left empty, the value will be 1.
5	Warehouse (To)		Text	Must be a valid code of a warehouse.
6	Price List		Integer	Must be a valid code of a price list.
7	Distribution Rule 1		Text	The Distribution rule for Dimension 1. Must be a valid identifier of a distribution rule.
8	Distribution Rule 2		Text	The Distribution rule for Dimension 2. Must be a valid identifier of a distribution rule.
9	Distribution Rule 3		Text	The Distribution rule for Dimension 3. Must be a valid identifier of a distribution rule.
10	Distribution Rule 4		Text	The Distribution rule for Dimension 4. Must be a valid identifier of a distribution rule.
11	Distribution Rule 5		Text	The Distribution rule for Dimension 5. Must be a valid identifier of a distribution rule.
12	Project		Text	Must be a valid identifier of a project.
13	Calculation Base Quantity		Number	
14	Custom Code		Text	
15	Is Auto Roll		N/Y	N - No Y - Yes If left empty, the value will be 'N'.
16	Milestone type		Integer between 0 and 4	0 - 1 - Milestone 2 - Depends on Begin 3 - Depends on Every 4 - Depends on End If left empty, the value will be '0'.
17	Operation Granularity		Number	
18	Recipe Version		Number	*No validation*
19	Rejected Warehouse		Text	Must be a valid code of a warehouse.
20	Timestamp		Text	*No validation*

If there is a value beyond 20th column, the row is invalid. A format error message is generated, and BoM is not processed.

Item row type

It represents a row on the grid of the Bill of Materials. The BoM row type is defined by the row sub

type (second column) in the import file.

The first 15 column is the same for every-sub type. If the sub type of the row is operation, operation specific information can be added on the 16-39 columns.

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✔	I	
2	Row sub-type	✔	Integer between 1 and 8	1 - Material 2 - Operation 3 - Unfinished Material 4 - Supplier Material 5 - By-Product 6 - Unfinished Product 7 - Cost 8 - Phantom
3	Item Code	✔	Text	Define an item with the given sub-type. Must be a valid item code. *The row sub-type is not validated.*
4	Quantity	✔	Number	This field should be empty for operations. The importer automatically calculates the quantity and updates this field with the calculated quantity.
5	Warehouse		Text	Must be a valid code of a warehouse.
6	Issue Method		M/B	M - Manual B - Backflush If left empty, the value will be 'B'.
7	Milestone type		Integer between 0 and 4	0 - 1 - Milestone 2 - Depends on Begin 3 - Depends on Every 4 - Depends on End If left empty, the value will be '0'.
8	Price List		Integer	Must be a valid code of a price list.
9	Comments		Text	
10	Distribution Rule 1		Text	The Distribution rule for Dimension 1. Must be a valid identifier of a distribution rule.
11	Distribution Rule 2		Text	The Distribution rule for Dimension 2. Must be a valid identifier of a distribution rule.
12	Distribution Rule 3		Text	The Distribution rule for Dimension 3. Must be a valid identifier of a distribution rule.
13	Distribution Rule 4		Text	The Distribution rule for Dimension 4. Must be a valid identifier of a distribution rule.
14	Distribution Rule 5		Text	The Distribution rule for Dimension 5. Must be a valid identifier of a distribution rule.
15	WIP Account		Text	The internal reference of a WIP Account. The internal reference code can be found in the OACT.ACCTCODE field.
16	Consignation Size		Number	
17	Drawing Position Number		Integer	

No.	Name	Mandatory	Possible types/values	Description
18	Profit Center		Text	
19	Rejected Warehouse		Text	Must be a valid code of a warehouse.

If the sub-type of the row is not operation, and there is a value beyond 19th column, the row is invalid. A format error message is generated, and BoM is not processed.

Operation row sub-type

No.	Name	Mandatory	Possible types/values	Description
20	Before Time		Number	The importer converts it to a base time using the Operation Time UoM from actual row of CSV or from Manufacturing Operation.
21	Safety Time		Number	
22	Setup Time		Number	
23	Job Time		Number	
24	Teardown Time		Number	
25	After Time		Number	
26	Time Base		Number	
27	Operation Break		Integer between 0 and 5	0 - 3 - Allowed 1 - Denied 2 - Allowed WC 4 - Allowed NBP 5 - Allowed WCNBP If left empty, the system will copy the value from the manufacturing operation.
28	Operation Time UoM		Text	The value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.*
29	Is parallel operation		N/Y	N - No Y - Yes If left empty, the system will copy the value from the manufacturing operation.
30	Is overlapping operation		N/Y	N - No Y - Yes If left empty, the system will copy the value from the manufacturing operation.
31	Max Parallel Operations		Integer	
32	Overlapping Quantity		Number	
33	Allocation Window		Number	The importer converts it to a base time using Allocation Window UoM from actual row of CSV or from Manufacturing Operation.
34	Allocation Window UoM		Text	The value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.*
35	Min Job Quantity		Number	
36	Feature		Text	Must be an existing work center feature.

No.	Name	Mandatory	Possible types/values	Description
37	Is Mandatory Work Center		N/Y	N - No Y - Yes If left empty, the system will copy the value from the manufacturing operation.
38	Preferred Work Center		Text	Must be an existing Work Center which supports selected Work Center Feature (from CSV or from Manufacturing Operation)
39	Outsourced		N/Y	N - No Y - Yes If left empty, the system will copy the value from the manufacturing operation.
40	In House Quantity		Number	
41	Outsourcing Lead Time		Number	If the Outsourced flag is set to Y, the importer converts it to a base time using Outsourcing UoM from actual row of CSV or from Manufacturing Operation. If the Outsourced flag is set to N, this field must be empty.
42	Outsourcing UoM		Number	If the Outsourced flag is set to Y, the value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.* If the Outsourced flag is set to N, this field must be empty.
43	Items per Outsourcing Unit		Number	If the Outsourced flag is set to N, this field must be empty.

* *In order to use Produmex Manufacturing integrated with Produmex WMS. the UoM must exist in the Units of Measure - Setup (OUOM) standard SBO table as well.*

If the row is an operation row, and there is a value beyond 43th column, the row is invalid. A format error message is generated, and BoM is not processed.

Supplier row type

It represents information about outsourcing partners. It can follow only an operation row or another supplier row, otherwise a format error message is generated and BoM is not processed.

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✔	S	
2	Supplier Code	✔	Text	Must be a valid supplier code.
3	Planned Quantity	✔	Number	

If there is a value beyond 3rd column, the row is invalid. A format error message is generated, and BoM is not processed.

Resource row type

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✔	R	
2	Resource Code	✔	Text	Must be a valid resource code.
3	Quantity	✔	Number	
4	Warehouse		Text	Must be a valid code of a warehouse.
5	Issue Method		M/B	M - Manual B - Backflush If left empty, the value wiil be 'B'.
6	Unit price		Number	
7	Comments		Text	
8	Distribution Rule 1		Text	The Distribution rule for Dimension 1. Must be a valid identifier of a distribution rule.
9	Distribution Rule 2		Text	The Distribution rule for Dimension 2. Must be a valid identifier of a distribution rule.
10	Distribution Rule 3		Text	The Distribution rule for Dimension 3. Must be a valid identifier of a distribution rule.
11	Distribution Rule 4		Text	The Distribution rule for Dimension 4. Must be a valid identifier of a distribution rule.
12	Distribution Rule 5		Text	The Distribution rule for Dimension 5. Must be a valid identifier of a distribution rule.
13	WIP Account		Text	The internal reference of a WIP Account. The internal reference code can be found in the OACT.ACCTCODE field.

If there is a value beyond 13th column, the row is invalid. A format error message is generated, and the BoM is not processed.

Text row type

No.	Name	Mandatory	Possible types/values
1	Row type	✔	T
2	Text	✔	Text

If there is a value beyond 2th column, the row is invalid. A format error message is generated, and the production order is not processed.

18.2.3. Production order

The first character of a row defines the row type and drives the processing of the row. If a comment token was defined, all rows beginning with the given character are skipped.

The following row types are supported:

- H - Header row

- I - Item row
- S - Supplier row
- R - Resource row
- T - Text row

Every other first character, except the comment token, generates an error message.

Download an example CSV file from here: Production order importer file example

Header row type

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✔	H	
2	Product No.	✔	Text	Item code of the product/sub-assembly. Must be a valid item code.
3	Planned quantity		If left empty, the value will be 1.	
4	Warehouse (To)		Text	Must be a valid code of a warehouse.
5	Series		Integer	
6	Due Date		Date	Format: YYYYMMDD. If left empty, the due date will be the current date.
7	Sales Order		Text	Add the DocEntry of the sales order.
8	Customer		Text	Must be an existing customer.
9	Distribution Rule 1		Text	The Distribution rule for Dimension 1. Must be a valid identifier of a distribution rule.
10	Distribution Rule 2		Text	The Distribution rule for Dimension 2. Must be a valid identifier of a distribution rule.
11	Distribution Rule 3		Text	The Distribution rule for Dimension 3. Must be a valid identifier of a distribution rule.
12	Distribution Rule 4		Text	The Distribution rule for Dimension 4. Must be a valid identifier of a distribution rule.
13	Distribution Rule 5		Text	The Distribution rule for Dimension 5. Must be a valid identifier of a distribution rule.
14	Project		Text	Must be a valid identifier of a project.
15	Allocation Strategy	✔	Integer between 0 and 3	0 - 1 - Back from due date 2 - Forward from earliest date 3 - Forward from preferred date
16	Due Time		Date	Format: hh:mm
17	Milestone Type		Integer between 0 and 4	0 - 1 - Milestone 2 - Depends On Begin 3 - Depends On Every 4 - Depends On End
18	Operation Granularity		Number	
19	Rejected warehouse	✔	Text	Must be a valid code of a warehouse.

No.	Name	Mandatory	Possible types/values	Description
20	Is Auto Roll	✔	N/Y	N - No Y - Yes
21	Force Reallocation	✔	N/Y	N - No Y - Yes
22	Custom Code		Text	

If there is a value beyond 22th column, the row is invalid. A format error message is generated, and the production order is not processed.

Item row type

Belongs to the production order defined by the previous header. The Row SubType determines the interpretation of the rest of the row.

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✔	I	
2	Row sub-type	✔	Integer between 1 and 8	1-Material 2-Operation 3-Unfinished Material 4-Supplier Material 5-By-Product 6-Unfinshed Product 7-Cost 8-Phantom
3	Item Code	✔		
4	Quantity	✔	Number	This value will be saved as the Base quantity. The Planned quantity will be calculated based on the Base quantity and the Quantity on the header. Only mandatory for Material rows.
5	Warehouse		Text	Must be a valid code of a warehouse.
6	Distribution Rule 1		Text	The Distribution rule for Dimension 1. Must be a valid identifier of a distribution rule.
7	Distribution Rule 2		Text	The Distribution rule for Dimension 2. Must be a valid identifier of a distribution rule.
8	Distribution Rule 3		Text	The Distribution rule for Dimension 3. Must be a valid identifier of a distribution rule.
9	Distribution Rule 4		Text	The Distribution rule for Dimension 4. Must be a valid identifier of a distribution rule.
10	Distribution Rule 5		Text	The Distribution rule for Dimension 5. Must be a valid identifier of a distribution rule.
11	WIP Account		Text	The internal reference of a WIP Account. The internal reference code can be found in the OACT.ACCTCODE field.
12	Consignation Size		Number	
13	Drawing Position Number		Integer	

No.	Name	Mandatory	Possible types/values	Description
14	Due Date		Date	Format: YYYYMMDD. If left empty, the due date will be the current date.
15	Due Time		Date	Format: hh:mm
16	Manual Planning	✔	Y/N	N - No Y - Yes
17	Issue Method	✔	B/M	M - Manual B - Backflush Mandatory for materials only. If left empty for other row sub-types, the value wiil be 'B'.
18	Milestone Type		Integer between 0 and 4	0 - 1 - Milestone 2 - Depends On Begin 3 - Depends On Every 4 - Depends On End If left empty, the value will be '0'.
19	Profit Center		Text	
20	Rejected Warehouse		Text	Must be a valid code of a warehouse.
21	Comment		Text	

If the sub-type of the row is not operation, and there is a value beyond 21th column, the row is invalid. A format error message is generated, and the production order is not processed.

Operation row sub-type

If the row sub-type is operation, additional operation specific data can be imported as well.

No.	Name	Mandatory	Possible types/values	Description
22	Before Time		Number	The importer converts it to a base time using the Operation Time UoM from actual row.
23	Safety Time		Number	
24	Setup Time		Number	
25	Job Time	✔	Number	
26	Teardown Time		Number	
27	After Time		Number	
28	Time Base		Number	
29	Operation Break		Integer between 0 and 5	0 - 3 - Allowed 1 - Denied 2 - Allowed WC 4 - Allowed NBP 5 - Allowed WCNBP If left empty, the value will be '3'.
30	Operation Time UoM		Text	The value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.*

No.	Name	Mandatory	Possible types/values	Description
31	Is parallel operation		N/Y	N - No Y - Yes If left empty, the value will be 'N'.
32	Is overlapping operation		N/Y	N - No Y - Yes If left empty, the value will be 'N'.
33	Max Parallel Operations		Integer	
34	Overlapping Quantity		Number	
35	Allocation Window		Number	The importer converts it to a base time using Allocation Window UoM from actual row.
36	Allocation Window UoM		Text	The value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.*
37	Min Job Quantity		Number	
38	Feature	✔	Text	Must be an existing work center feature.
39	Is Mandatory Work Center		N/Y	N - No Y - Yes If left empty, the system will copy the value from the manufacturing operation.
40	Preferred Work Center		Text	Must be an existing Work Center which supports selected Work Center Feature.
41	Outsourced		N/Y	N - No Y - Yes If left empty, the system will copy the value from the manufacturing operation.
42	In House Quantity		Number	
43	Outsourcing Lead Time		Number	If the Outsourced flag is set to Y, the importer converts it to a base time using Outsourcing UoM from actual row. If the Outsourced flag is set to N, this field must be empty.
44	Outsourcing UoM		Number	If the Outsourced flag is set to Y, the value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.* If the Outsourced flag is set to N, this field must be empty.
45	Items per Outsourcing Unit		Number	If the Outsourced flag is set to N, this field must be empty.

* *In order to use Produmex Manufacturing integrated with Produmex WMS. the UoM must exist in the Units of Measure - Setup (OUOM) standard SBO table as well.*

If the row is an operation row, and there is a value beyond 45th column, the row is invalid. A format error message is generated, and the production order is not processed.

Supplier row type

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✔	S	
2	Supplier Code	✔	Text	Must be a valid supplier code.
3	Planned Quantity	✔	Number	

If there is a value beyond 3th column, the row is invalid. A format error message is generated, and the production order is not processed.

Resource row type

Belongs to the previous operation. It can be used only after a row with Operation sub-type, otherwise a content error will be generated.

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✔	R	
2	Resource Code	✔	Text	Must be a valid resource code.
3	Quantity	✔	Number	
4	Warehouse		Text	Must be a valid code of a warehouse.
5	Issue Method		M/B	M - Manual B - Backflush If left empty, the value wiil be 'B'.
6	Comment		Text	
7	Distribution Rule 1		Text	The Distribution rule for Dimension 1. Must be a valid identifier of a distribution rule.
8	Distribution Rule 2		Text	The Distribution rule for Dimension 2. Must be a valid identifier of a distribution rule.
9	Distribution Rule 3		Text	The Distribution rule for Dimension 3. Must be a valid identifier of a distribution rule.
10	Distribution Rule 4		Text	The Distribution rule for Dimension 4. Must be a valid identifier of a distribution rule.
11	Distribution Rule 5		Text	The Distribution rule for Dimension 5. Must be a valid identifier of a distribution rule.
12	WIP Account		Text	The internal reference of a WIP Account. The internal reference code can be found in the OACT.ACCTCODE field.

If there is a value beyond 12th column, the row is invalid. A format error message is generated, and the production order is not processed.

Text row type

No.	Name	Mandatory	Possible types/values
1	Row type	✔	T
2	Text	✔	Text

If there is a value beyond 2th column, the row is invalid. A format error message is generated, and the production order is not processed.

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