IMPORT EXPORT DATA FILE -- OPTY-WAY®

Opty-Way Version 5.1.0.2 and above
Opty-Way Enterprise Rel. 3.1.217.0 and above ← to verify

ROW / FIELD DESCRIPTION	***FORMAT***	***DIM***	***POS***
1st ROW (58 chars)			
WORK ORDER DESCRIPTION	CHAR	32	1 .. 32
WORK ORDER DATE(format: DDMMYYYY)	CHARS	8	33 .. 40
ELABORATION FLAGS (UNUSED)	SPACES	8	41 .. 48
TOTAL NUMBER OF WORK ORDER PIECES	integer	8	49 .. 56
IMPORT V4.0 CONSTANT IDENTIFIER	STRING "**V4**"	2	57..58
2nd ROW (8 chars)			
NUMBER OF WORK ORDER LINES	integer	8	1.. 8

(If the number of work order lines specified is lower than the real, the exceeding lines will be ignored, if the number is greater the program will give an error message and abort the import. The number of the lines must be completed to eight ciphers with zeroes preceding the actual number.)

FOLLOWING ROWS (152+ chars)

(Each **record** can be composed **of more than one** line if containing a **shape** or **additional workings** other than cutting : one line with the main data, and subsequent lines with shape and workings data. The main line must be of at least 152 characters in order to be correctly imported, fields must be aligned to the left if of type CHAR, using spaces to complete them if necessary, and to the right if of type REAL or INTEGER, using zeroes before the actual value if necessary to complete the field itself.)

Required fields (7):			
MATERIAL ID CODE (1)	CHAR	16	1 .. 16
POSITION NUMBER	integer (increm.)	5	17 .. 21
CUSTOMER	CHAR	12	22 .. 33
ORDER	CHAR	12	34 .. 45
SHAPE ID (2)	CHAR	8	46 .. 53
GRINDING VALUE (DIMENSION) (3) (6)	REAL	8	54 .. 61
PRIORITY OF THE PIECE	integer (0/999)	3	62 .. 64
ROTATION FLAG	CHAR (Y/N)	1	65 .. 65
NUMBER OF CUTTING PIECES	integer	8	66 .. 73
FIXED TEXT CODE (for bending machine)	REAL	8	74 .. 81
X-SIZE OF THE PIECE (3)	REAL	8	82 .. 89
Y-SIZE OF THE PIECE (3)	REAL	8	90 .. 97
SPACER (3) (4)	CHAR	8	98 .. 105
ADDITIONAL NOTES	CHAR	32	106 .. 137
NUMBER OF LABELS	integer	5	138 .. 142
EXCEDED PIECES	integer	5	143 .. 147
PREFERENCE VALUE	integer (0/99999)	5	148 .. 152
Optional fields (7)::			
RACK	CHARS	6	153 .. 158
DELIVERY DATE (format: DDMMYYYY)	CHARS	8	159 .. 166
HOLE CODE (for bending machine)	CHAR (‘000’..’009’)	3	167 .. 169
SPACER DISTANCE FROM GLASS EDGE (3)	REAL	8	170 .. 177
ADDITIONAL TEXT 1 (5)	CHARS	32	178 .. 209
ADDITIONAL TEXT 2 (5)	CHARS	32	210 .. 241
ADDITIONAL TEXT 3 (5)	CHARS	32	242 .. 273
ADDITIONAL TEXT 4 (5)	CHARS	32	274 .. 305
ADDITIONAL TEXT 5 (5)	CHARS	32	306 .. 337
ADDITIONAL TEXT 6 (5)	CHARS	32	338 ..369
ADDITIONAL TEXT 7 (5)	CHARS	32	370 .. 401

ADDITIONAL TEXT 8 (5)	CHARS	32	402 .. 433
ADDITIONAL TEXT 9 (5)	CHARS	32	434 .. 465
ADDITIONAL TEXT 10 (5)	CHARS	32	466 .. 497
SECOND SPACER (3) (4)	CHAR	8	498 .. 505
BOTTOM/X1 GRINDING VALUE (3) (6)	REAL	8	506 .. 513
LEFT/Y1 GRINDING VALUE (3) (6)	REAL	8	514 .. 521
TOP/X2 GRINDING VALUE (3) (6)	REAL	8	522 .. 529
RIGHT/Y2 GRINDING VALUE (3) (6)	REAL	8	530 .. 537
ADDITIONAL TEXT 11 (5)	CHARS	32	538 .. 569
ADDITIONAL TEXT 12 (5)	CHARS	32	570 .. 601
ADDITIONAL TEXT 13 (5)	CHARS	32	602 .. 633
ADDITIONAL TEXT 14 (5)	CHARS	32	634 .. 665
ADDITIONAL TEXT 15 (5)	CHARS	32	666 .. 697
ADDITIONAL TEXT 16 (5)	CHARS	32	698 .. 729
ADDITIONAL TEXT 17 (5)	CHARS	32	730 .. 761
ADDITIONAL TEXT 18 (5)	CHARS	32	762 .. 793
ADDITIONAL TEXT 19 (5)	CHARS	32	794 .. 825
ADDITIONAL TEXT 20 (5)	CHARS	32	826 .. 857
MATERIAL DESCRIPTION	CHARS	48	858 .. 905
Added with release Enterprise 2.0.0.2			
ORDER DATE (Format: DDMMYYYY)	CHARS	8	906 .. 913
ORDER LINE NUMBER	integer	8	914 .. 921
CUSTOMER TRADE NAME	CHARS	40	922 .. 961
CUSTOMER ADDRESS (STREET)	CHARS	40	962 .. 1001
CUSTOMER ADDRESS (CITY)	CHARS	30	1002.. 1031
CUSTOMER ADDRESS (PROVINCE)	CHARS	6	1032 .. 1037
CUSTOMER ADDRESS (STATE/NATION)	CHARS	4	1038 .. 1041
CUSTOMER ADDRESS (ZIP/POST CODE)	CHARS	8	1042 .. 1049
			1050

NOTES:

(1) **Material ID for Insulating Glass:**
It is possible to insert the codes of each Material ID separated by a slash or a backslash character. Material ID Codes can be either in lower or upper case, they will be automatically converted to upper case.
example: "FL4/FL5", "fl4/fl5", "FL4 / FL5" and "fl4 / fl5" are all accepted while "FL4 – FL5" is not
Spacers for insulating glass are specified in different fields, see below.
In the Opty-Way it ‘s possible to specify a max of two glass types, in the Enterprise a max of three glass types.

(2) **Shape Import:**
It is possible to import geometrical or parametrical shapes. See next section for details.

(3) **Dimensions:**
Dimensions are expressed using current measurement unit. Use of fractions is not allowed, i.e. if current measurement unit is "Fractional Inches", 10 ¼ inches must be inserted as 10.25

(4) **Spacer:**
Spacer description can contain other information in addition to the dimension value.
Example: "10bronze" is accepted and considered a 10 mm sized spacer. "10 4" is also accepted and considered a 10 mm sized spacer (the "4" is considered "additional information")
If second spacer is blank or 0 then the first spacer will be repeated for each glass. If the first spacer is blank or 0 then the second spacer will be ignored.
Example: FL4/FL5/FL6 … 12 … 0 is read as FL4/12/FL5/12/FL6, while FL4/FL5/FL6 … 12 … 10 is read as FL4/12/FL5/10/FL6 and FL4/FL5/FL6 … 0 … 10 is read as FL4/FL5/FL6 (i.e. without spacers)

(5) **Additional Texts:**
Available for printing Labels by Label-Way and importing from the Orders Menu only

(6) **Grinding:**
For rectangular pieces it is possible to specify a single value for grinding (field GRINDING VALUE, columns 54 to 61) or to decompose it into four different values (fields from column 506 to column 537), one for each side of the piece (bottom, left, top, right). If the “single value” is specified then the other four values are ignored.
The "single value" is added to both X and Y dimensions, while top and bottom values are added to Y and left and right are added to X dimension.

Example: these rows are considered equivalent:

```
Glass … X dim Y dim … Grind  X1  Y1  X2  Y2
FL4 … 1000.0 1000.0 … 2.0 … 0.0 0.0 0.0 0.0   (final size: 1002.0 x 1002.0)
FL4 … 1000.0 1000.0 … 0.0 … 1.0 1.0 1.0 1.0   (final size: 1002.0 x 1002.0)
FL4 … 1000.0 1000.0 … 0.0 … 1.5 0.0 0.5 2.0   (final size: 1002.0 x 1002.0)
```

(7) **Optional data:**
The first 152 character in each principal data line (excluding shape) must be present as like value, as like useless field (empty or zero) and only the value of the emphasized bold field are obligatory. Subsequent information are optional, so the line can have different length. If optional character are not specified they will assume a value of 0 (if numbers) or empty (is strings).

(8) **Enterprise-only:**
These fields/features are meaningful only when importing into Opty-Way Enterprise.

PARAMETRICAL / SHAPES IMPORT

***The field "SHAPE ID" can contain three different kind of values:**

A - To import a Parametric Entity the field must be this string: "########".

Following Rows:

1 - PARAMETRICAL ENTITY GENERAL DATA:

Name of the parametrical entity	CHARS	
Number of parameters to change	integer	

2 - PARAMETER DATA (one record each changing parameter; not needed if "Num. of parameters" is 0):

Identifier of the changing parameter	CHARS	
New value of the parameter	real	

3 - ELABORATIONS DATA (OPTIONAL. All the "Elaboration records" must be on the same row):

Elaboration Identifier	CHARS	“ELAB:”
Value of specified elaboration	---	MX 1 (mirror x)
		MY 1 (mirror y)
		ROT xxx (rotate xxx degrees)
		OFF xxx (offset xxx distance value)

4 - SHAPE ENTITY GENERAL DATA:

Name of the Shape Entity that will be generated	CHARS
X1-Trim Value	real
Y1-Trim Value	real
X2-Trim Value	real
Y2-Trim Value	real

B - To import a Shape Entity the field must contain the name of an existing shape.

Following Rows:

1 - ELABORATIONS DATA (OPTIONAL. All the "Elaboration records" must be on the same row):

Elaboration Identifier	CHARS
Value of specified elaboration	---

2 - SHAPE ENTITY GENERAL DATA:

Name of the Shape Entity that will be generated	CHARS
X1-Trim Value	real (-1 if no modify)
Y1-Trim Value	real (-1 if no modify)
X2-Trim Value	real (-1 if no modify)
Y2-Trim Value	real (-1 if no modify)

C - Let the field blank if no shape.

Examples:

Parametric shape CRC1 with radius R=1000 and trim 20 on each side (Bounding box: 2040x2040)

```
FL4/FL4        00001                        ########000000.0000Y000000100000000975.0000890.5 …
CRC1 1
R 1000
CIRCLE 20 20 20 20
```

Parametric shape FIL8-1 with various parameters and different trims on each side (Bounding box: 1040x840)

```
FL4/FL4        00001                        ########000000.0000Y000000100000000975.0000890.5 …
FIL8-1 5
W 1000
H 800
W1 200
H1 200
R 150
SHAPE123 20 10 20 30
```

Geometric shape Cerchio1 with trim 20 on each side (Bounding box: 2040x2040)

```
FL4/FL4        00001                          Cerchio1000000.0000Y00000001000000000975.0000890.5 …
CIRCLE 20 20 20 20
```

ADDITIONAL WORKINGS IMPORT (OPTY-WAY ENTERPRISE ONLY)

Following each row, it is possible to specify additional workings for the pieces: grinding, tempering, and other custom workings.

Each row has the following format:

ROW / FIELD DESCRIPTION	***FORMAT***	***DIM***	***POS***
RECORD TYPE SPECIFIER	CHAR “+”	1	1 .. 1
CODE	CHARS	8	2 .. 9
RACK	CHARS	16	10 .. 25
PARAMETERS	CHARS	32	26 .. 57
WORKORDER	CHARS	16	58. . 73 74 ..

CODE can be one of the following:

- CUT, for glass cutting
- BEND, for spacer bending
- TEMPER, for glass tempering
- CLOSE, for insulating glass assembly

Moreover it is possible to specify other custom codes, such as “GRIND”; “BEVEL”, and so on. Custom codes must be inserted also in “Additional Workings” window in Opty-Way Enterprise

EXAMPLE:

- 10 pieces of insulating glass 4/12br/4, 800x600 mm (cutting, bending, assembly)
- 10 pieces of simple glass 4, 700x500 mm (cutting, grinding, beveling)

```
Additional workings             01012001               V3
      2
FL4/FL5         00001OPTIMA      ORDER01/01           00000.0000Y00000010000000000000800.0000600.0    12BR …
+CUT
+BEND
+CLOSE
FL4             00002OPTIMA      ORDER01/01           00000.0000Y00000010000000000000700.0000500.0         …
+CUT
+GRIND
+BEVEL
```