

How to create spare part manuals from Autodesk inventor design with ToDoT

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Scenario

Machinery manufactures need to produce spare parts manuals;

Manufactures of Engineering to order special machinery need to produce a different spare parts manual in each project;

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Machinery manufactures need to produce spare parts manuals;

Manufactures of Engineering to order special machinery need to produce a different spare parts manual in each project;

...Quickly

The typical spare parts manual:

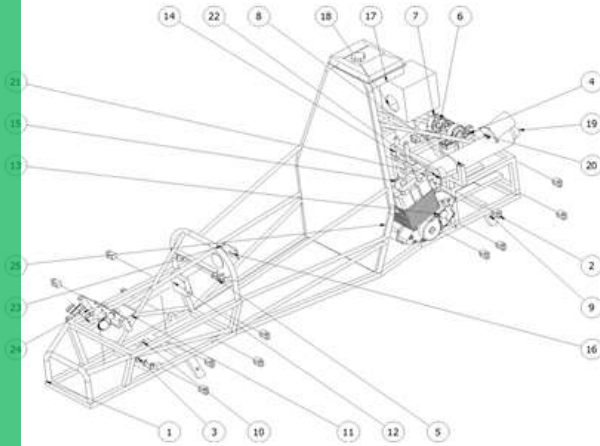
Project related information (customer, product number, etc.);

	ID	
	Descrizione	1203791
	Desc	


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The typical spare parts manual:

Images;



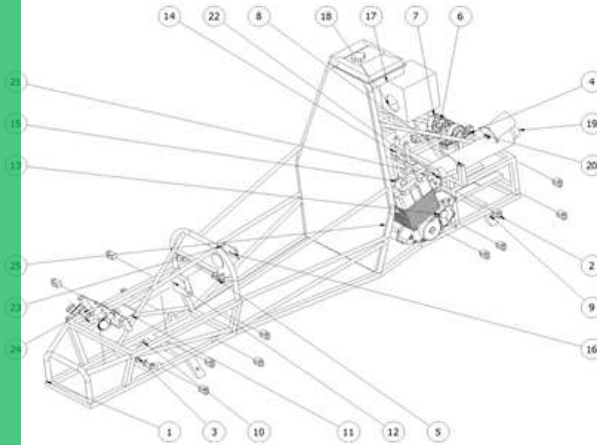
Project related information (customer, product number, etc.);

 SingeCa sas	ID	
	Descrizione	1203791
	Desc	

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The typical spare parts manual:

Images;



Part lists, etc.



PO	PN	DESCRIZIONE	DESC	QT
1	1203765	Telaio in tubolari		1
2	1203777	Attacco sospensioni completo		18
3	1203773	Supporto pedaliera		1
4	1203759	Supporto UCF		2
5	1203754	Forcella		2
6	1203755	Forcella		2
7	1203757	Sfera		4
8	1203756	Tubolare composto		1
9	1203761	Tubolare composto		1
10	1203760	Tubolare composto		1
11	1203767	Scatola guida sterzo		1
12	1203769	Blocchetto guida sterzo		1
13	1203785	Motore completo		1
14	1203763	Supporto motore posteriore		1
15	1203764	Supporto motore anteriore		1
16	1203770	piatto guida sterzo		1
17	1203766	Serbatoio		1
18	1203768	Alimentazione		1
19	1203772	Scarico		1
20	1203758	Filtro		1
21	1203771	Tubo aspirazione		1
22	1203762	Aspirazione		1
23	1203753	Blocchetto guida leva		1
24	1203790	Azionamenti pedaliera		1
25	1203774	Sedile		1

Project related information (customer, product number, etc.);

TODOT SingeCa sas		ID
TODOT SingeCa sas		1203791
TODOT SingeCa sas		Desc

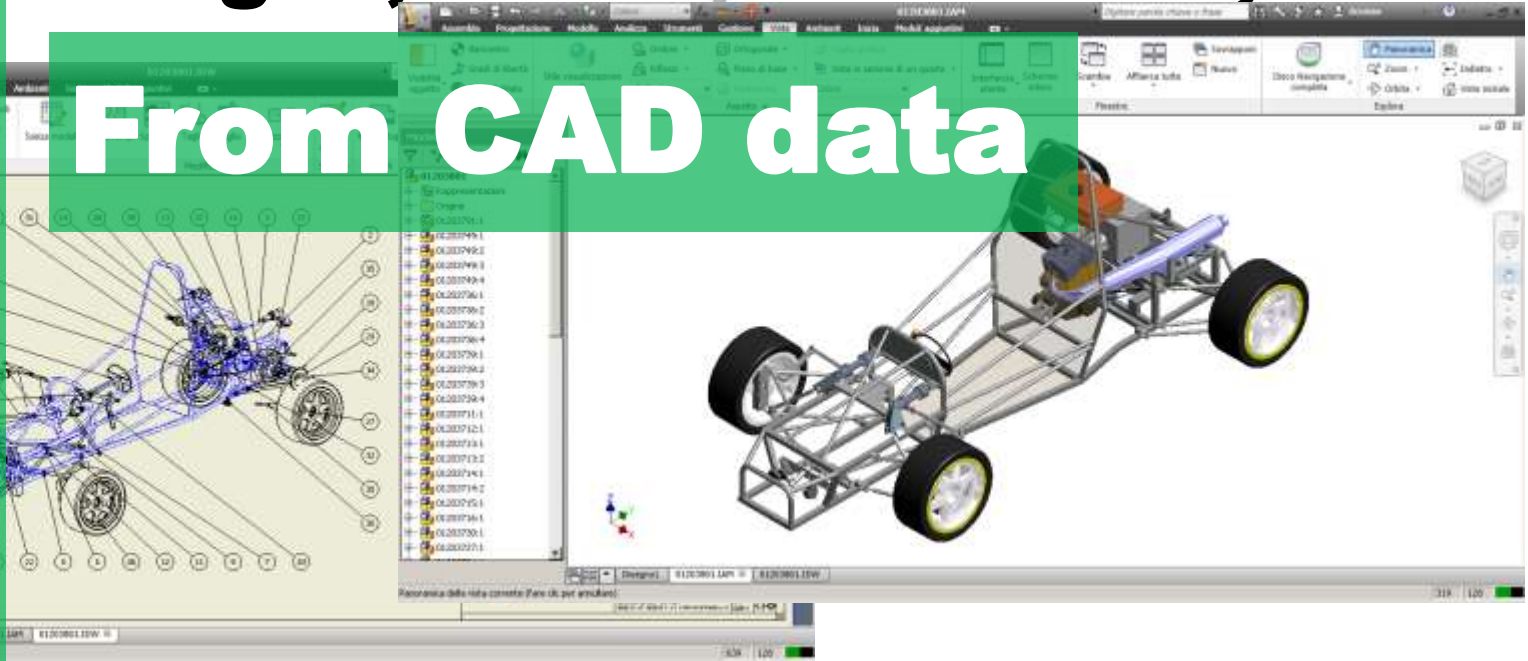
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Images;


Part lists, etc.

From CAD data

The typical spare parts manual:



Project related information (customer, product number, etc.);

	ID	
	Descrizione	1203731
	Desc	

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Images;

Part lists, etc.

From CAD data

...find ...open ...export

**Project related information
(customer, product number,
etc.);**

...save as

...copy, paste

**The typical spare
parts manual:**



ID	Descrizione
1203791	

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TÖDÖT
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Images;

Part lists, etc.

The typical spare parts manual:

Page layouts made with usual tools:

Project related information (customer, product number, etc.);

 TODOT SingeCa sas	ID	
	Descrizione	1203791
	Desc	

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Images;

Part lists, etc.

The typical spare parts manual:

Page layouts made with usual tools:

Excel

Word

Project related information (customer, product number, etc.);

**...copy, paste
...page layout**

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...print preview

The spare parts manual with ToDoT

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Il manuale ricambi tipo

Grafica; Distinte, ecc.

Prese dal CAD

...trova ...apri ...esporta

Informazioni legate alla commessa (cliente, matricole, ecc.);

...salva con nome

...copia, incolla

Il manuale ricambi tipo

Grafica; Distinte, ecc.

Impaginate con Excel gli strumenti abituali

Word

Informazioni legate alla commessa (cliente, matricole, ecc.);

...copia, incolla

...impagina

...anteprima di stampa

The spare parts manual with ToDoT

Inventor assembly is processed;

Drawings retrieved;



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The spare parts manual with ToDoT

Inventor assembly is processed;

Drawings retrieved;

Images and part lists extracted and saved in Excel format;

Result is translated in pdf



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ToDoT
SIngeCa sas

The spare parts manual with ToDOT

1 - define excel template

**Cover,
default
sections,
etc.**

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ToDOT
SIngeCa sas

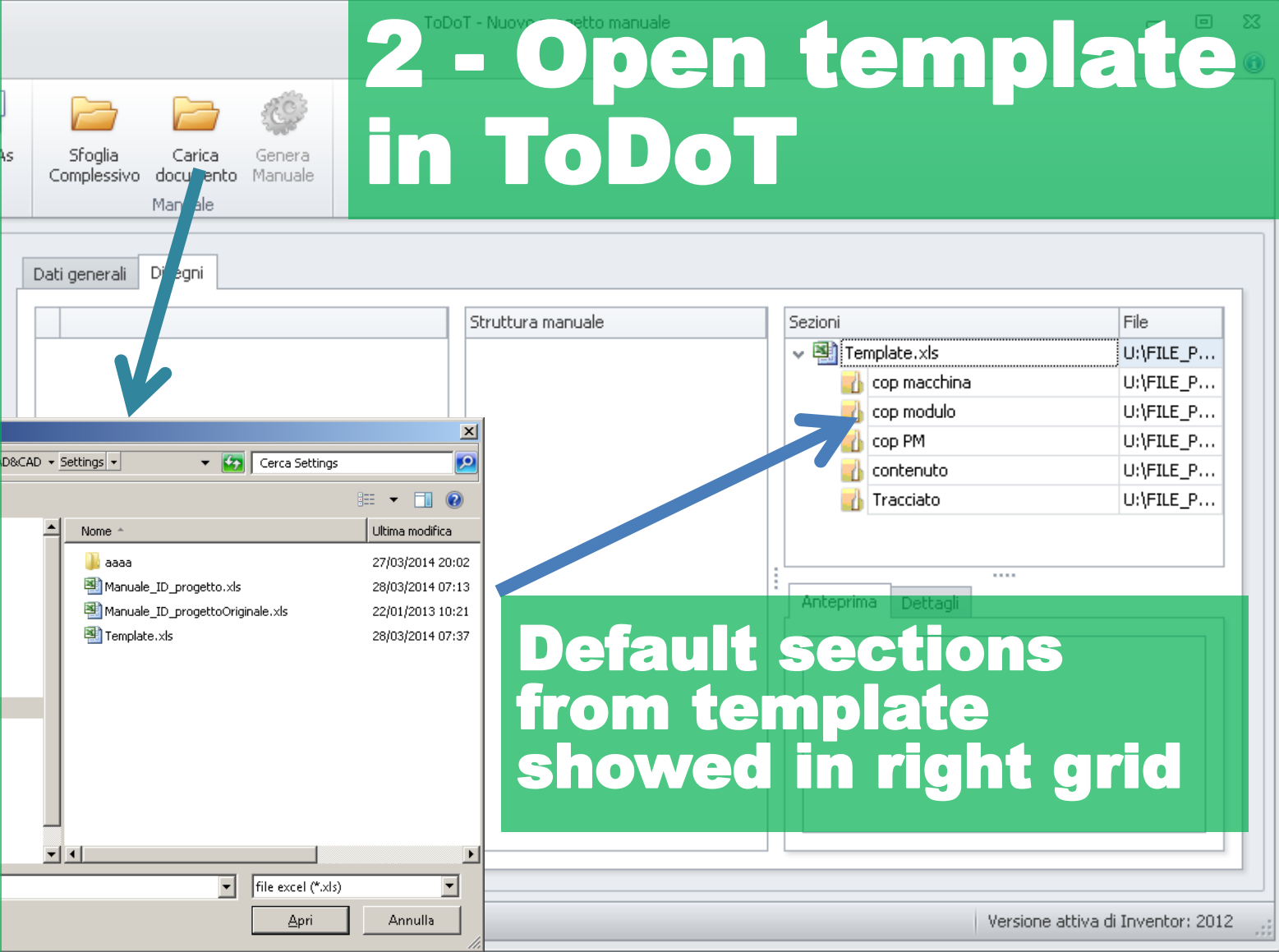
cop macchina cop modulo cop PM contenuto Tracciato

Pronto 55%

(Customizable)

The spare parts manual with ToDoT

2 - Open template in ToDoT



Default sections from template showed in right grid

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The spare parts manual with ToDoT

3 - Open Inventor assembly in ToDoT

The screenshot shows the Autodesk Inventor interface. On the left, the 'Oggetti inventor' tree lists components under the assembly '20100332'. The 'Struttura manuale' window is open, showing a tree view of the assembly structure. A 3D preview of the assembly is visible in the bottom right corner. A blue arrow points from the '3 - Open Inventor assembly in ToDoT' title to the 'Struttura manuale' window. Another blue arrow points from the 'Assembly tree in the left grid' title to the 'Oggetti inventor' tree. A third blue arrow points from the 'Preview' title to the 3D model.

Oggetti inventor	Tavola	Descrizione
20100332		
20100310		
70100700		SUPPORTO ANTE...
70100701		ALBERO UGELLI
70100702		SUPPORTO POST...
70100703		DISTANZIALE ST...
n024665c 0...		Cuscinetto SKF 3...
n024665c 0...		Cuscinetto SKF...
70100720		COPERCHIO SUP...
70100730		ECCENTRICO AP...
70100729		PERNO FOLLE KR...
KR 30.ipt		
KR 26.ipt		
Cuscinetto 6...		CUSCINETTO 62...
70100759		
70100912		

Assembly tree in the left grid

Preview

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4 - Edit manual content

The spare parts manual with ToDoT

Drag sections

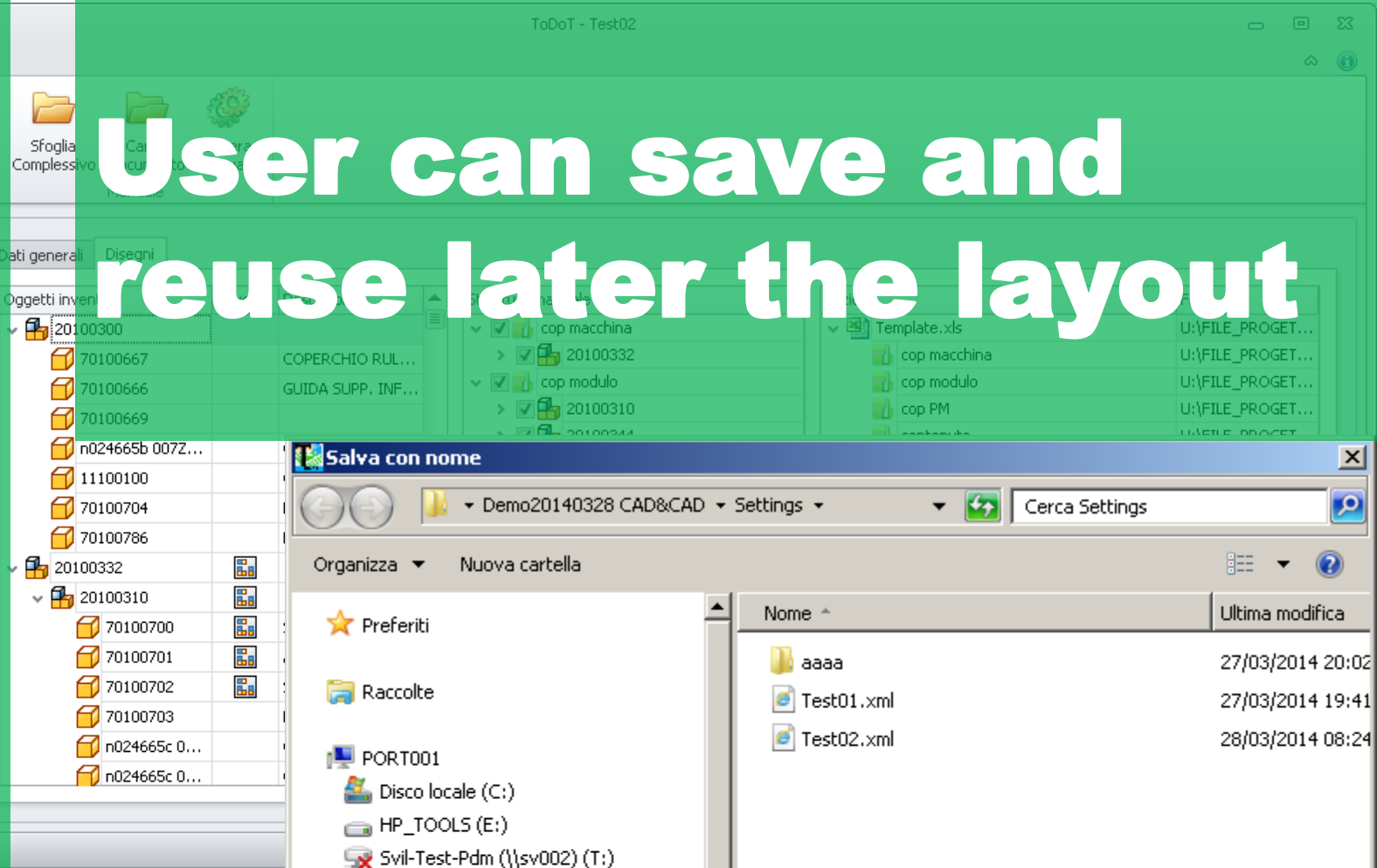
Drag sub-assemblies under proper section

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User can save and reuse later the layout

The spare parts manual with ToDoT

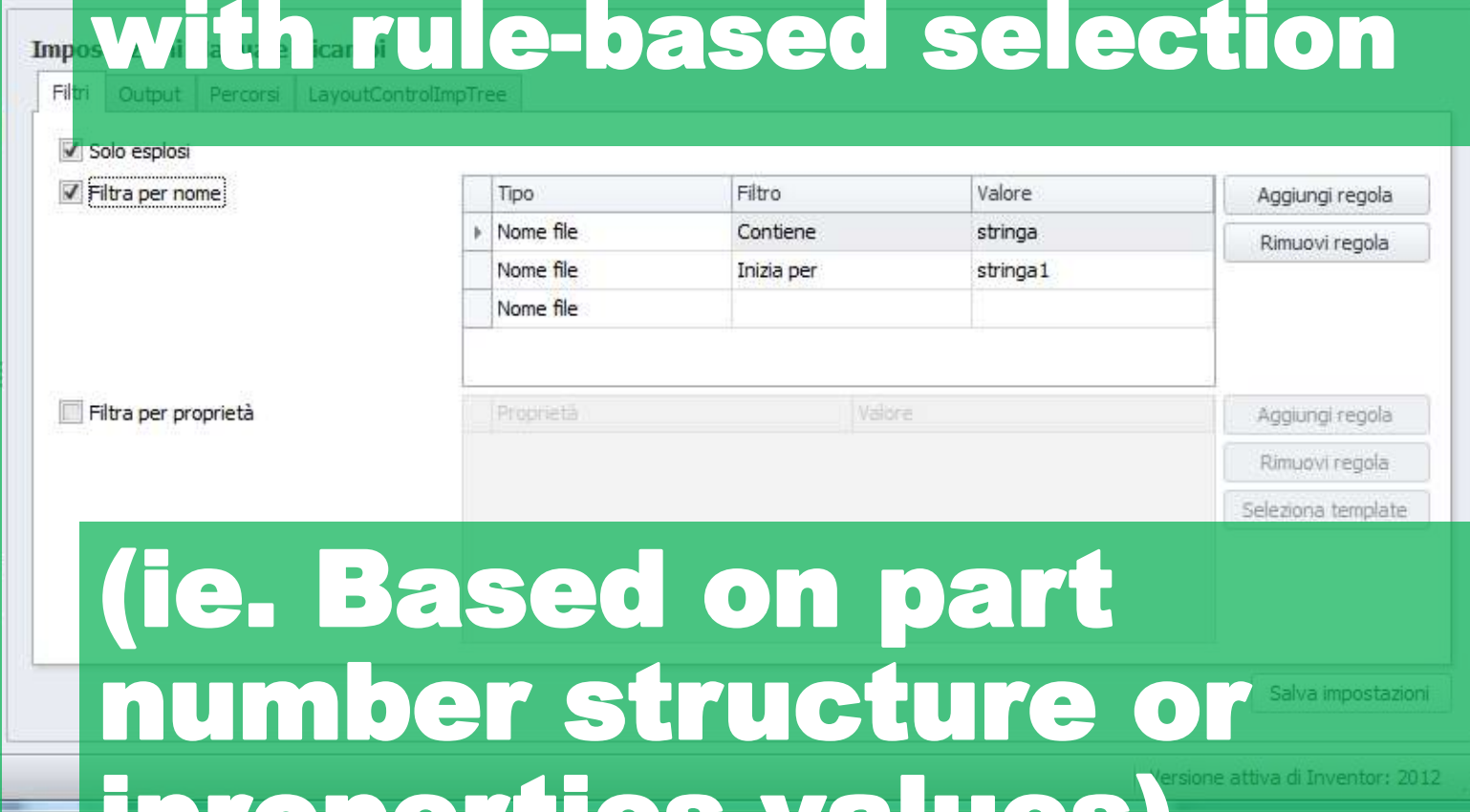


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The spare parts manual with ToDOT

Capability to pre-assign subassemblies to section with rule-based selection



(ie. Based on part number structure or iproperties values)

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5 - Run. ToDot:

The spare parts manual with ToDot

Genera Manuale

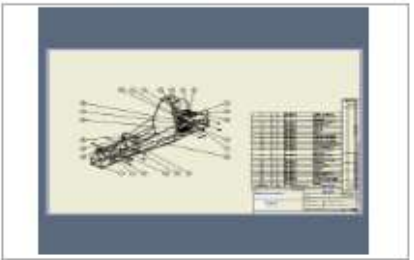
Dati generali Disegni

Oggetti inventor	...	D...	N...	DI...
01203801	Au...	01...	U:...	
> 01203791	Gr...	01...	U:...	
> 01203749	No...	01...	U:...	
> 01203736	01...	01...	U:...	
> 01203739	01...	01...	U:...	
> 01203711	Tri...	01...	U:...	
> 01203712	Tri...	01...	U:...	
> 01203713	Tir...	01...	U:...	
> 01203714	Tir...	01...	U:...	
> 01203715	Tri...	01...	U:...	
> 01203716	Tri...	01...	U:...	
> 01203730	M...	01...	U:...	
> 01203727	M...	01...	U:...	

Codice	...	Descrizione
> [checked]	cop macchina	
> [checked]	01203791	Gruppo telai...

Sezioni	File
Template.xls	U:\FILE_PROGETTI\...
cop macc...	U:\FILE_PROGETTI\...
cop modulo	U:\FILE_PROGETTI\...
cop PM	U:\FILE_PROGETTI\...
contenuto	U:\FILE_PROGETTI\...
Tracciato	U:\FILE_PROGETTI\...

Anteprima Dettagli



5 – Run. ToDot:

Opens drawings in Inventor

The spare parts manual with ToDOT

The screenshot displays the Autodesk Inventor 2012 software interface. On the left, a 3D model of a bicycle frame is shown with various components highlighted in blue. In the center, a table lists parts with columns for 'Codice' (Code), 'Descrizione' (Description), and 'File'. A blue arrow points to the 'Gruppo telai...' entry in the tree view, which is circled in blue. The tree view shows a hierarchy of parts, including 'cop macchina' and '01203791'. The bottom right corner shows a preview window with a thumbnail of the 3D model.

Codice	...	Descrizione
01203714		Tir... 01... U:...
01203715		Tri... 01... U:...
01203716		Tri... 01... U:...
01203730		M... 01... U:...
01203727		M... 01... U:...

Sezioni	File
Template.xls	U:\FILE_PROGETTI\...
cop macchina	U:\FILE_PROGETTI\...
cop modulo	U:\FILE_PROGETTI\...
cop PM	U:\FILE_PROGETTI\...
contenuto	U:\FILE_PROGETTI\...
Tracciato	U:\FILE_PROGETTI\...

Versione attiva di Inventor: 2012

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5 – Run. ToDot:

Opens drawings in Inventor

The spare parts manual with ToDOT

The screenshot shows the Autodesk Inventor interface. On the left, a 3D assembly model of a bicycle frame is visible. On the right, a parts list table is displayed with columns for 'Codice' and 'Descrizione'. A blue circle highlights the entry '01203791 Gruppo telai...'. A blue arrow points from this entry to a zoomed-in view of the parts list table at the bottom right of the image.

Codice	Descrizione
01203714	Tir... 01... U:...
01203715	Tri... 01... U:...
01203716	Tri... 01... U:...
01203730	M... 01... U:...
01203727	M... 01... U:...

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Extracts images and part lists and populates Excel Template

**The spare parts
manual with ToDOT**

5 – Run. ToDot:

Opens drawings in Inventor

**When done manual is
saved as .pdf, or
opened in Excel to
allow further edits by
the user**

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**Extracts images and part lists
and populates Excel Template**

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