CARRARA STEFANO

Da una libreria di componenti e semilavorati ad una libreria elettronica integrata in un plm di moderna concezione

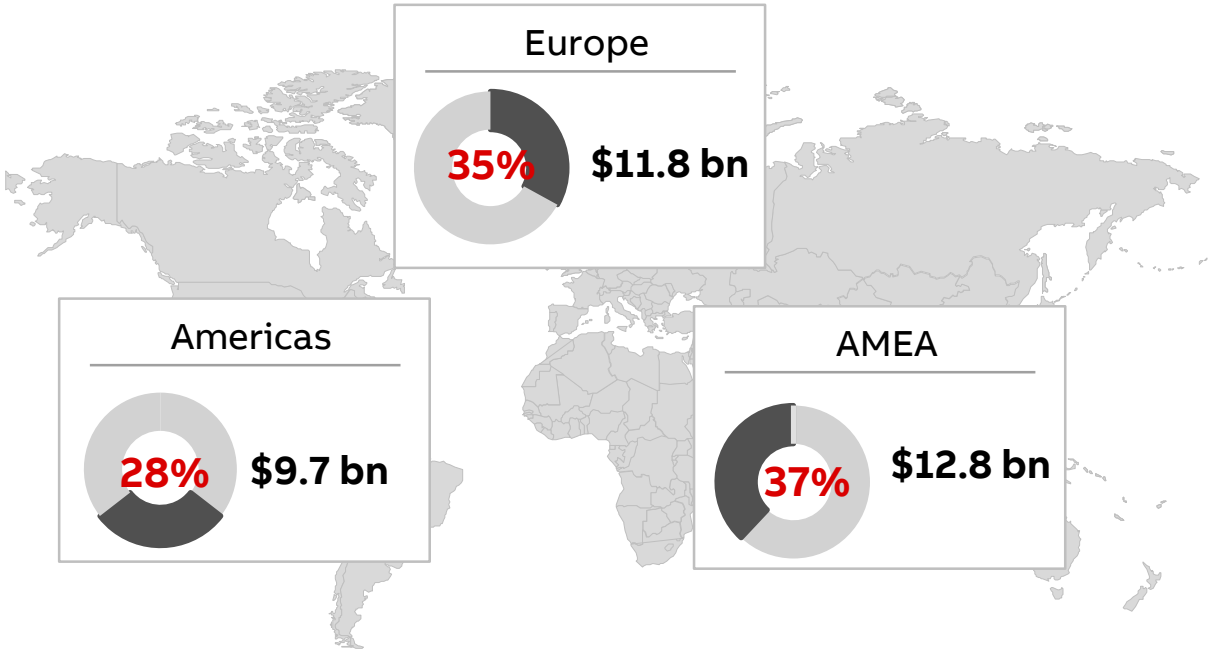
Bologna, 08/05/2019

In questa presentazione

- ABB e suoi prodotti: Mercato, Prodotti, Clienti
- Il prodotto di riferimento e la sua ‘libreria’ di standard parts
- La creazione di una libreria digitale a partire dalla libreria esistente
- Implementazione di Cadenas nel PLM ABB

ABB FORMULA-E
FIA FORMULA-E CHAMPIONSHIP

ABB: posizionamento e fatturato



- Mature markts (54%)
- Emerging markets (46%)

~$34 bn revenue[1]	~100 countries	~147,000 employees

SOURCE: Q4 2017 published financial results; ABB analysis

Electrification – Smart Power business line

Breakers & Enclosures

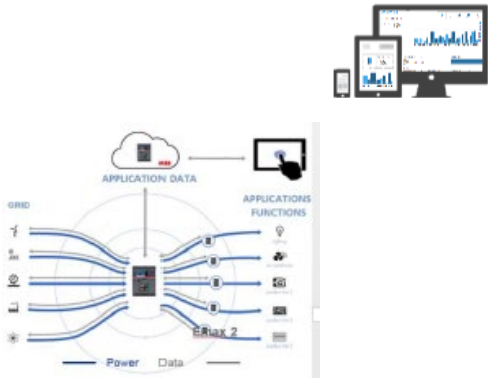
Breakers

Air circuit breakers

Molded case circuit breakers

ABB Ability™

Electrical Distribution Control System



La libreria di componenti standard esistente in SAP

Contiene una raccolta di schede tecniche (PDF) che descrivono tutti gli oggetti acquistati:

- **Materie prime** →

- **Semilavorati metallici** →

- **Componenti commerciali** →

- 1200 schede tecniche in SAP
- 12000 anangrafiche materiali SAP, molte associate a CAD.
- Le schede tecniche (denominate schede RT) raccolgono elementi appartenenti a classi specifiche e omogenee (es. viti, dadi, ecc…).

©ABB

Esempio di datasheet in SAP

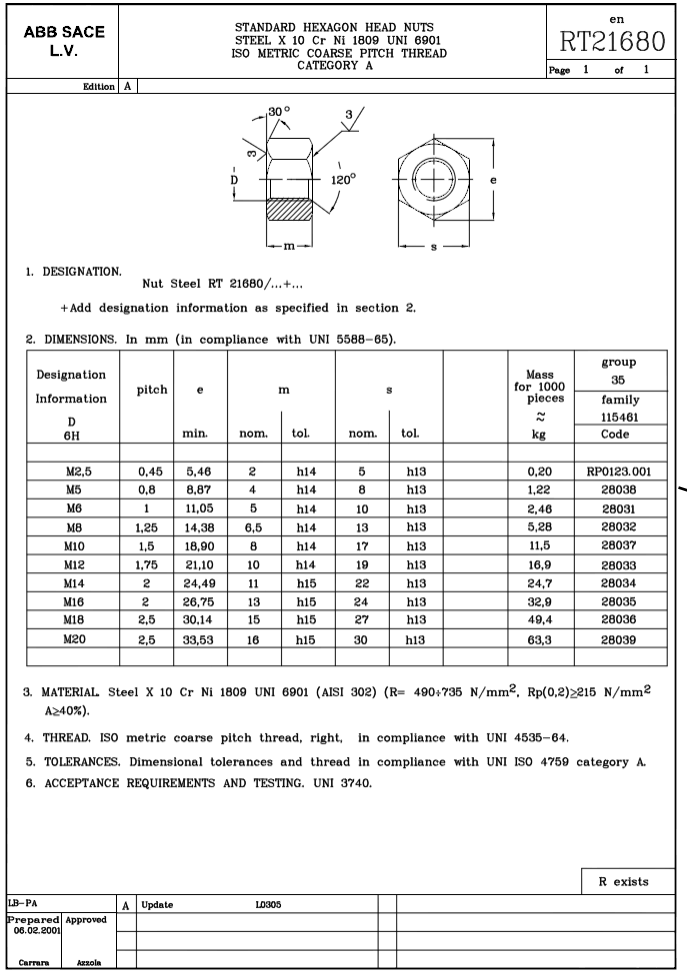


ABB SACE L.V.	STANDARD HEXAGON HEAD NUTS STEEL X 10 Cr Ni 1809 UNI 6901 ISO METRIC COARSE PITCH THREAD CATEGORY A	en RT21680 Page 1 of 1
Edition A		

1. DESIGNATION.
Nut Steel RT 21680/...+...
+Add designation information as specified in section 2.

2. DIMENSIONS. In mm (in compliance with UNI 5588-65).

Designation Information D 6H	pitch	e min.	m nom.	m tol.	s nom.	s tol.		Mass for 1000 pieces ≈ kg	group 35 family 115461 Code
M2,5	0,45	5,46	2	h14	5	h13		0,20	RP0123.001
M5	0,8	8,87	4	h14	8	h13		1,22	28038
M6	1	11,05	5	h14	10	h13		2,46	28031
M8	1,25	14,38	6,5	h14	13	h13		5,28	28032
M10	1,5	18,90	8	h14	17	h13		11,5	28037
M12	1,75	21,10	10	h14	19	h13		16,9	28033
M14	2	24,49	11	h15	22	h13		24,7	28034
M16	2	26,75	13	h15	24	h13		32,9	28035
M18	2,5	30,14	15	h15	27	h13		49,4	28036
M20	2,5	33,53	16	h15	30	h13		63,3	28039

3. MATERIAL. Steel X 10 Cr Ni 1809 UNI 6901 (AISI 302) (R= 490÷735 N/mm², Rp(0,2)≥215 N/mm² A≥40%).

4. THREAD. ISO metric coarse pitch thread, right, in compliance with UNI 4535-64.

5. TOLERANCES. Dimensional tolerances and thread in compliance with UNI ISO 4759 category A.

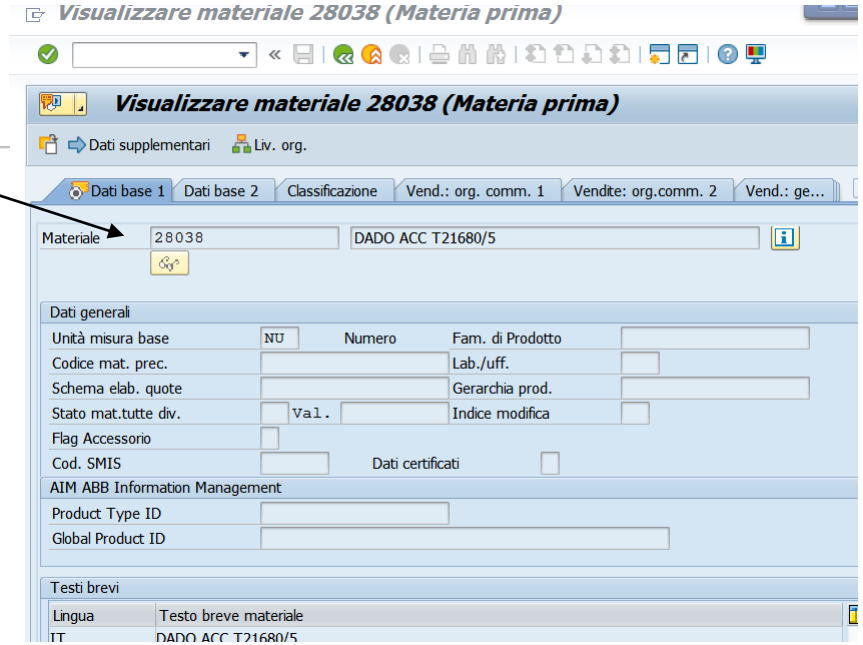
6. ACCEPTANCE REQUIREMENTS AND TESTING. UNI 3740.

R exists

LB-PA	A	Update LD305
Prepared 06.02.2001 Carrara	Approved Azzola	

Le schede RT contengono sempre i dettagli che permettono di definire esattamente caratteristiche geometriche e proprietà degli oggetti, associati ad un codice univoco interno (anagrafica materiale SAP).

28038



©ABB

Coversione delle schede tecniche in Cadenas

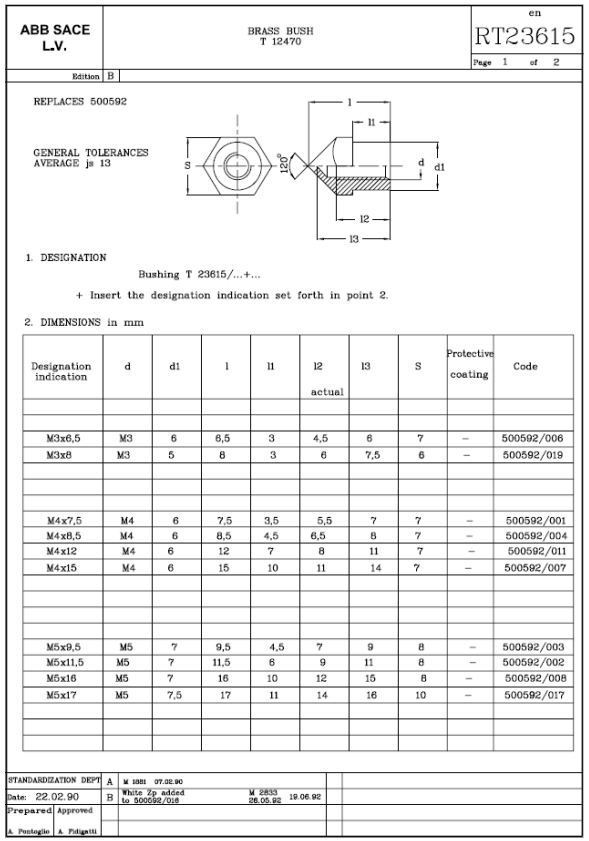


ABB SACE L.V.

BRASS BUSH T 12470

en RT23615

Page 1 of 2

Edition B

REPLACES 500592

GENERAL TOLERANCES AVERAGE js 13

1. DESIGNATION

Bushing T 23615/...+...

+ Insert the designation indication set forth in point 2.

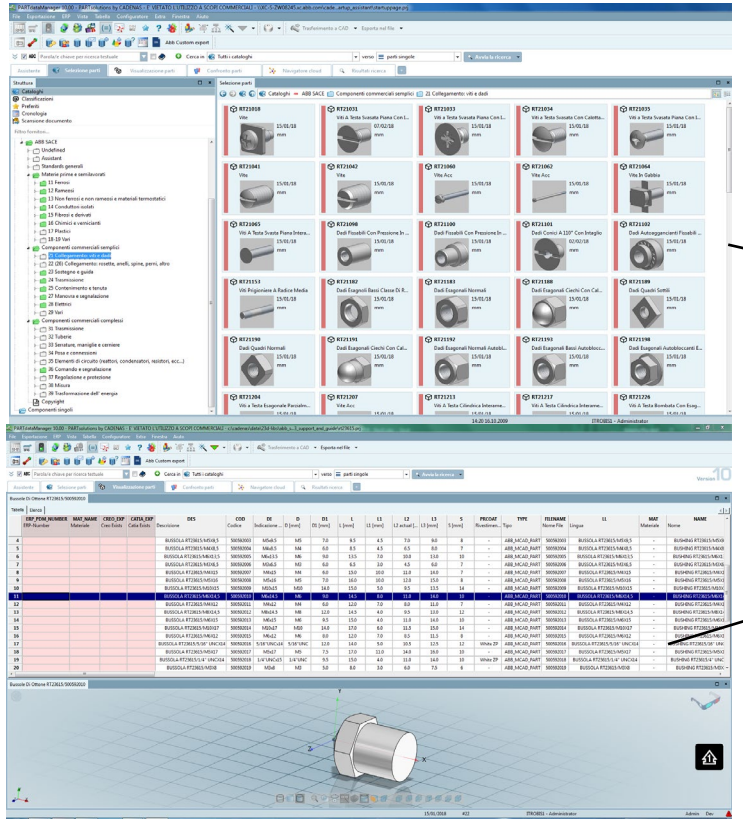
2. DIMENSIONS in mm

Designation indication	d	d1	l	l1	l2 actual	l3	S	Protective coating	Code
M3x6,5	M3	6	6,5	3	4,5	6	7	–	500592/006
M3x8	M3	5	8	3	6	7,5	6	–	500592/019
M4x7,5	M4	6	7,5	3,5	5,5	7	7	–	500592/001
M4x8,5	M4	6	8,5	4,5	6,5	8	7	–	500592/004
M4x12	M4	6	12	7	8	11	7	–	500592/011
M4x15	M4	6	15	10	11	14	7	–	500592/007
M5x9,5	M5	7	9,5	4,5	7	9	8	–	500592/003
M5x11,5	M5	7	11,5	6	9	11	8	–	500592/002
M5x16	M5	7	16	10	12	15	8	–	500592/008
M5x17	M5	7,5	17	11	14	16	10	–	500592/017

STANDARDIZATION DEPT A M 1981 07.02.90

Date: 22.02.90 B White Zp added to 500592/016 M 2833 26.05.92 19.06.92

Prepared A. Postoglio Approved A. Pidigatti



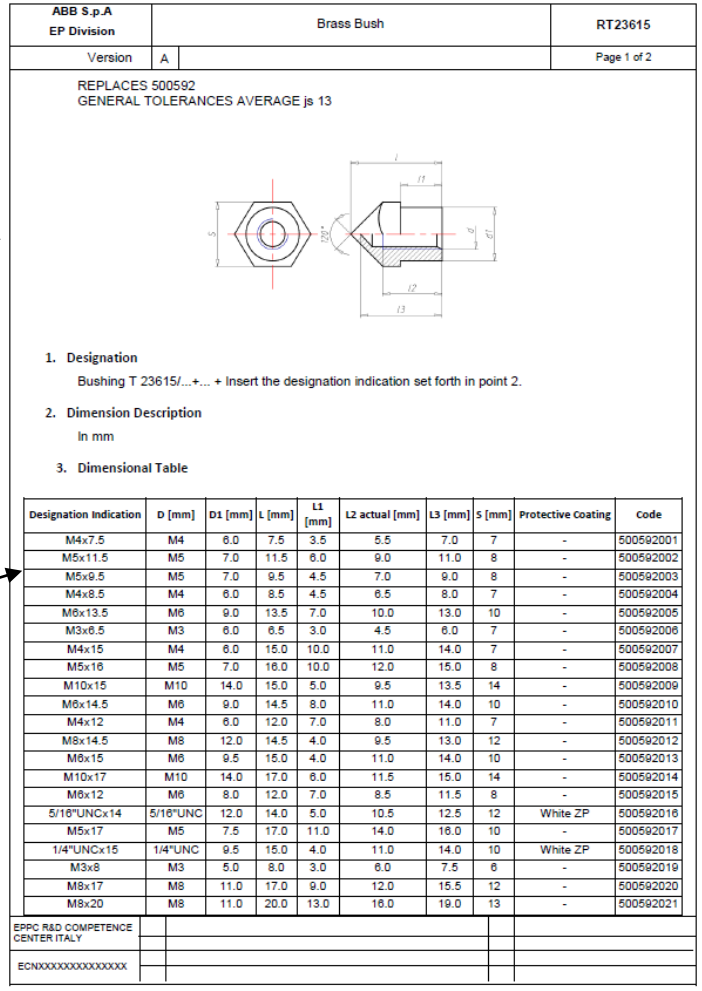


ABB S.p.A EP Division

Brass Bush

RT23615

Version A

Page 1 of 2

REPLACES 500592

GENERAL TOLERANCES AVERAGE js 13

1. Designation

Bushing T 23615/...+... + Insert the designation indication set forth in point 2.

2. Dimension Description

In mm

3. Dimensional Table

Designation Indication	D [mm]	D1 [mm]	L [mm]	L1 [mm]	L2 actual [mm]	L3 [mm]	S [mm]	Protective Coating	Code
M4x7.5	M4	6.0	7.5	3.5	5.5	7.0	7	-	500592001
M5x11.5	M5	7.0	11.5	6.0	9.0	11.0	8	-	500592002
M5x9.5	M5	7.0	9.5	4.5	7.0	9.0	8	-	500592003
M4x8.5	M4	6.0	8.5	4.5	6.5	8.0	7	-	500592004
M6x13.5	M6	9.0	13.5	7.0	10.0	13.0	10	-	500592005
M3x6.5	M3	6.0	6.5	3.0	4.5	6.0	7	-	500592006
M4x15	M4	6.0	15.0	10.0	11.0	14.0	7	-	500592007
M5x16	M5	7.0	16.0	10.0	12.0	15.0	8	-	500592008
M10x15	M10	14.0	15.0	5.0	9.5	13.5	14	-	500592009
M6x14.5	M6	9.0	14.5	8.0	11.0	14.0	10	-	500592010
M4x12	M4	6.0	12.0	7.0	8.0	11.0	7	-	500592011
M8x14.5	M8	12.0	14.5	4.0	9.5	13.0	12	-	500592012
M6x15	M6	9.5	15.0	4.0	11.0	14.0	10	-	500592013
M10x17	M10	14.0	17.0	6.0	11.5	15.0	14	-	500592014
M6x12	M6	8.0	12.0	7.0	8.5	11.5	8	-	500592015
5/16"UNCx14	5/16"UNC	12.0	14.0	5.0	10.5	12.5	12	White ZP	500592016
M5x17	M5	7.5	17.0	11.0	14.0	16.0	10	-	500592017
1/4"UNCx15	1/4"UNC	9.5	15.0	4.0	11.0	14.0	10	White ZP	500592018
M3x8	M3	5.0	8.0	3.0	6.0	7.5	6	-	500592019
M8x17	M8	11.0	17.0	9.0	12.0	15.5	12	-	500592020
M8x20	M8	11.0	20.0	13.0	16.0	19.0	13	-	500592021

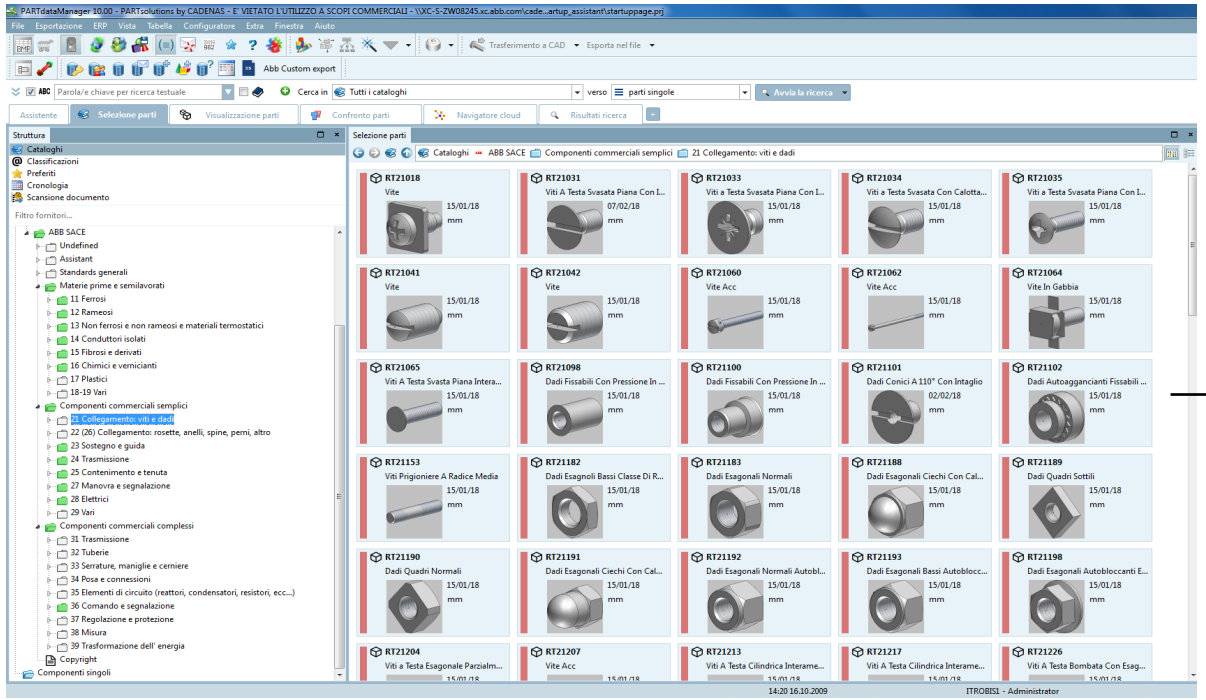
EPPC R&D COMPETENCE CENTER ITALY

ECNXXXXXXXXXXXXXX

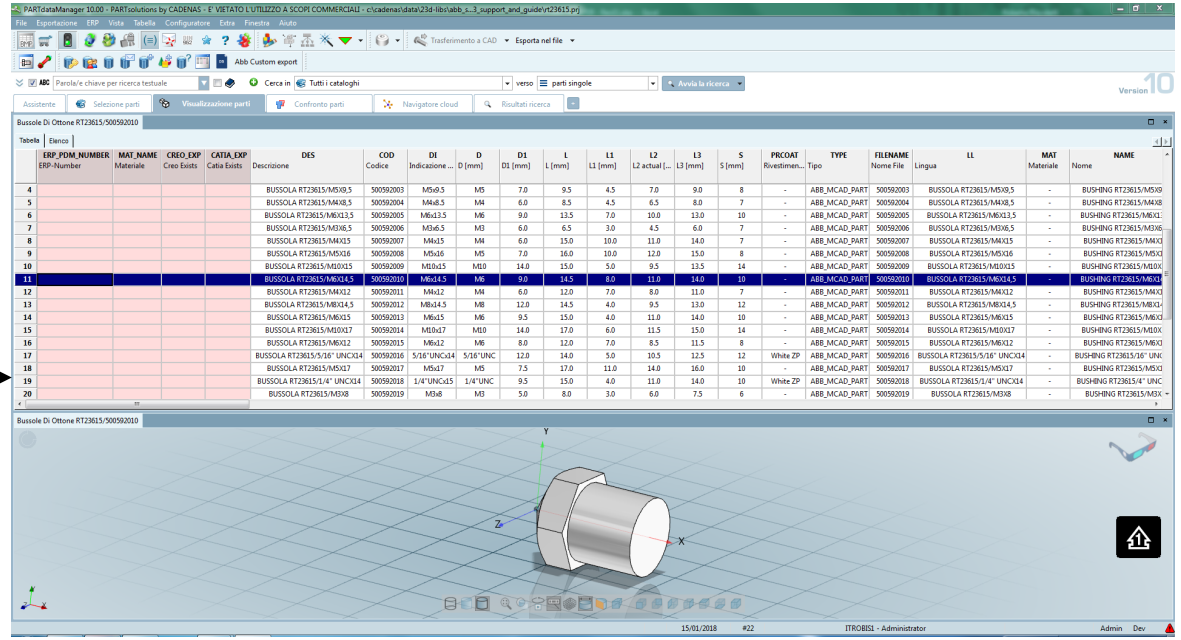
Dal vecchio PDF, ad un WORD generato con un click (customizzazione)

©ABB

Categorie, schede e singole posizioni



Gerarchia (albero) in cadenas. Usato anche come ricerca e il confronto.



Scheda tecnica in cadenas. Wtparts, creo, CATIA e il datasheet di Word vengono inviati a Windchill dall'admin da lì disponibili per l'uso da parte degli utenti.

ABB