

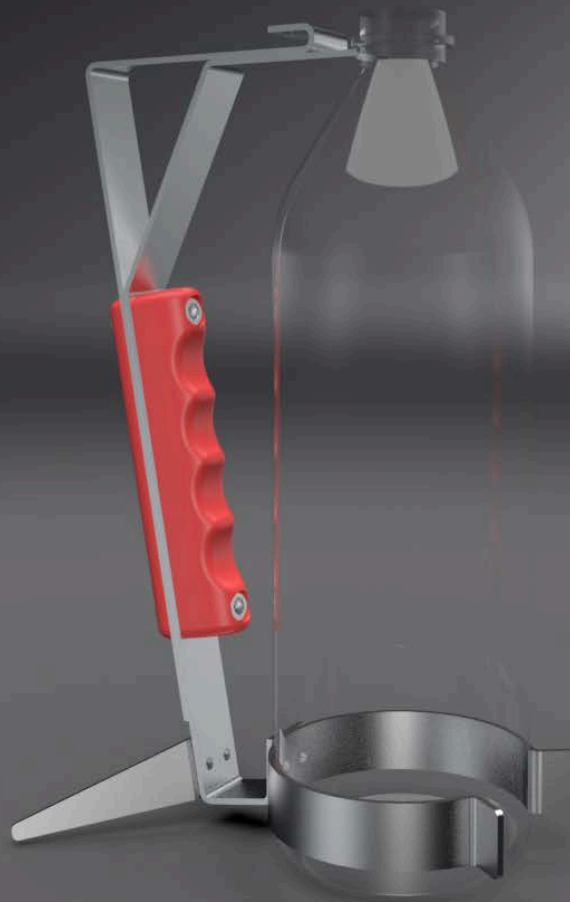
CAD IV

Design for everyone

Lowie Vermaete – Marc

Groep 4 – Flessenhouder

User manual



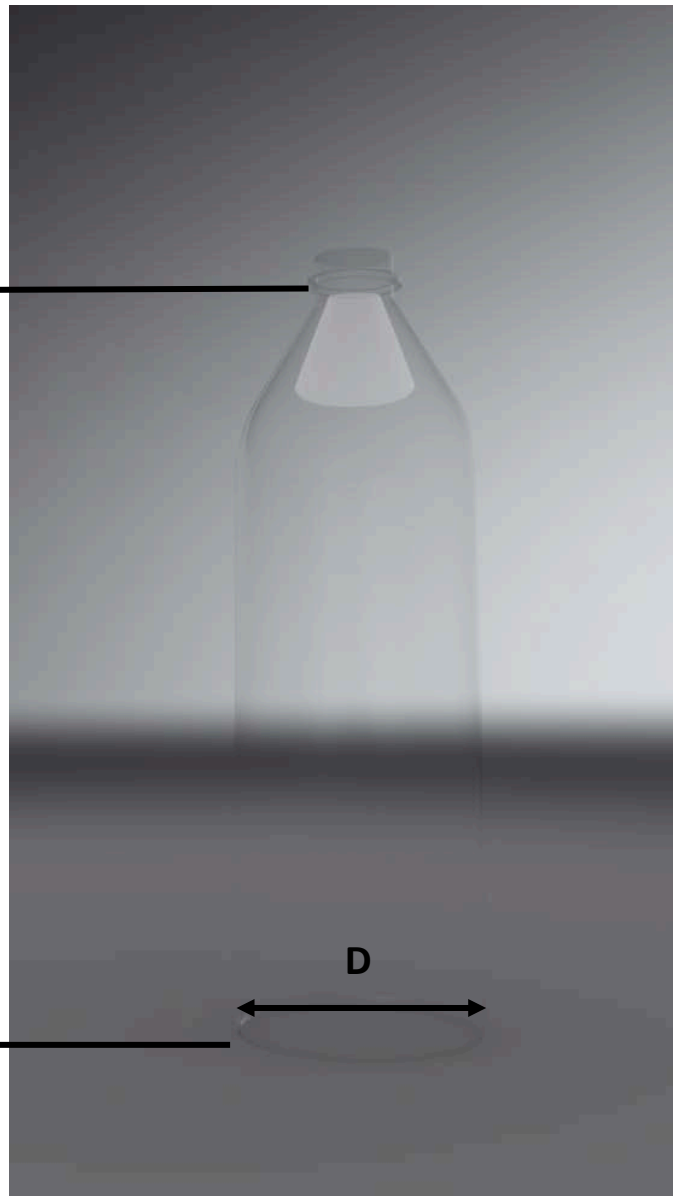
Input parameters

Hoogte (H) – hoogte tot aan het randje

Diameter (D) – diameter van de fles

H

D



H = hoogtefles

D = Diameterfles

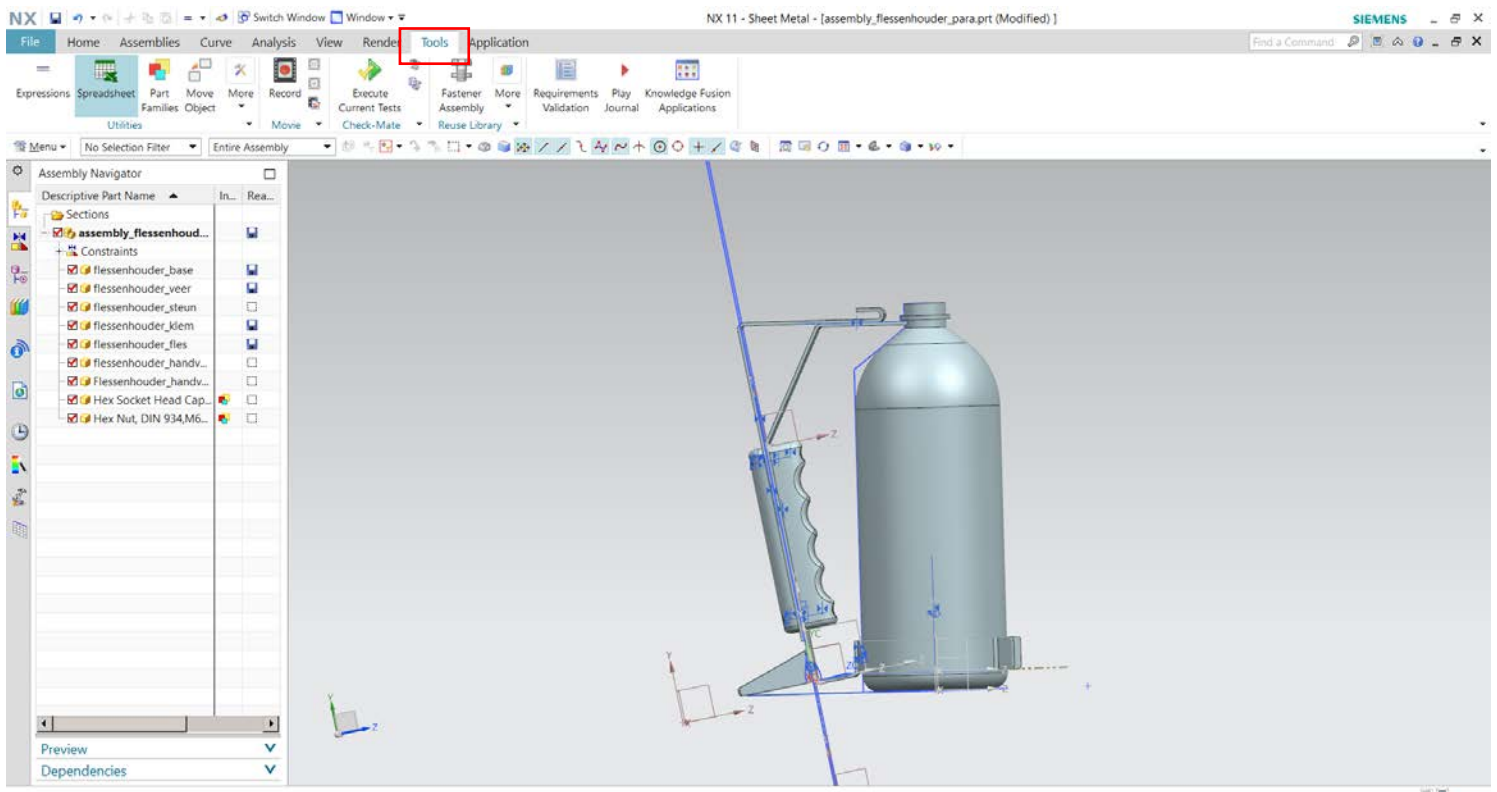
Parameters in CAD bestand

Minimum hoogte fles: 230

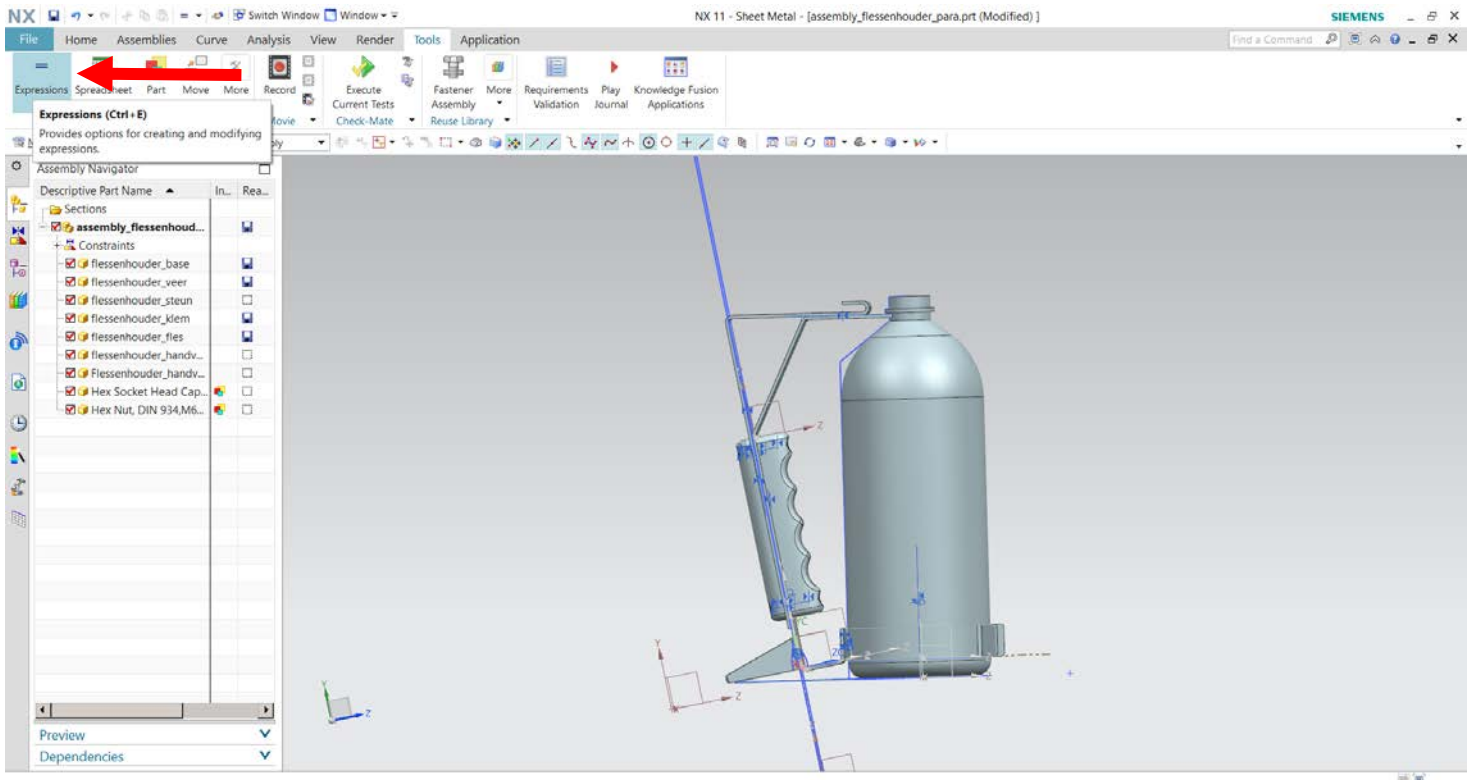
1. Open het assembly bestand.

Name	Date modified	Type	Size
assembly_flessenhouder	30/03/2018 8:48	Text Document	14 KB
assembly_flessenhouder.stp	30/03/2018 8:48	STP File	414 KB
assembly_flessenhouder_para	30/03/2018 8:45	Siemens Part File	225 KB
flessenhouder_base	28/03/2018 18:16	Siemens Part File	306 KB
flessenhouder_fles	30/03/2018 8:59	Text Document	6 KB
flessenhouder_fles	28/03/2018 18:16	Siemens Part File	208 KB
flessenhouder_fles.stp	30/03/2018 8:59	STP File	16 KB
Flessenhouder_handvat_achterkant	28/03/2018 18:16	Siemens Part File	189 KB
flessenhouder_handvat_voorkant	28/03/2018 17:36	Siemens Part File	326 KB
flessenhouder_klem	27/03/2018 17:11	Siemens Part File	233 KB
flessenhouder_steun	23/03/2018 10:00	Siemens Part File	219 KB
flessenhouder_veer	28/03/2018 18:16	Siemens Part File	282 KB
handleiding flessenhouder	30/03/2018 9:25	Microsoft Word D...	1 968 KB
handleiding flessenhouder	30/03/2018 9:25	Adobe Acrobat D...	157 KB
Hex Nut, DIN 934,M6x1	28/03/2018 18:16	Siemens Part File	421 KB
Hex Socket Head Cap Screw, DIN,M6x25	28/03/2018 18:16	Siemens Part File	274 KB
render 1	30/03/2018 8:56	PNG File	1 072 KB
render 2 fles	30/03/2018 9:03	PNG File	871 KB

2. Klik op de tab “Tools”.



3. Klik op “Expressions”



4. Pas de 2 parameters aan naar de opgemeten waarden en klik op “OK”

The screenshot shows the 'Expressions' dialog box in NX 11. The dialog displays a list of 25 expressions, including their names, formulas, values, units, dimensionality, and types. Two parameters, 'diameterfles' and 'hoogtefles', are highlighted with red boxes, indicating they are the parameters to be adjusted.

Name	Formula	Value	Units	Dimensionality	Type	Source
1						
2 diameterfles	90	90	mm	Length	Number	
3 hoogte	hoogtefles+3	233	mm	Length	Number	
4 hoogtefles	230	230	mm	Length	Number	
5 hoogtemetvoet	hoogte-6.8	226.2	mm	Length	Number	
6 hoogteschuin	hoogtemetvoet*1.0152	229.63824	mm	Length	Number	
7 lengtebovenkant	68+((hoogte-310)*0.1763)+(diameterfles/2-44)	55.4249	mm	Length	Number	
8 lengtetotaal	45+80+lengtebovenkant+schuintotaal	330.06314	mm	Length	Number	
9 lengteveer	380+((hoogte-310)*0.1763)+(diameterfles/2-44)	367.4249	mm	Length	Number	
10 p0	212	212	mm	Length	Number	(SKET)
11 p1	100	100	degrees	Angle	Number	(SKET)
12 schuintotaal	hoogteschuin-80	149.63824	mm	Length	Number	
13 Sheet_Metal_Bend_Radius	2	2	mm	Length	Number	
14 Sheet_Metal_Depth_Threshold	1.5	1.5	mm	Length	Number	
15 Sheet_Metal_Distance_Threshold	75	75	mm	Length	Number	
16 Sheet_Metal_Flat_In_Corner_Value	0.1	0.1	mm	Length	Number	
17 Sheet_Metal_Flat_Out_Corner_Value	0.1	0.1	mm	Length	Number	
18 Sheet_Metal_Material_Thickness	2	2	mm	Length	Number	
19 Sheet_Metal_Neutral_Factor	0.33	0.33		Constant	Number	
20 Sheet_Metal_Offset_Radius	3	3	mm	Length	Number	
21 Sheet_Metal_Relief_Depth	2	2	mm	Length	Number	
22 Sheet_Metal_Relief_Width	2	2	mm	Length	Number	
23 Sheet_Metal_Stationary_Radius	3	3	mm	Length	Number	
24 SM_Validation_MIN_Punch_Tool_Clearance	5.0	5	mm	Length	Number	
25 SM_Validation_MIN_WEB_LENGTH	5.0	5	mm	Length	Number	

5. Als alles goed verlopen is zou het model moeten aanpassen naar de juiste waarden.

