AUTODESK ACADEMIA DESIGN 2012

Kategorie: **student 3D (INVENTOR)**

Úkoly:

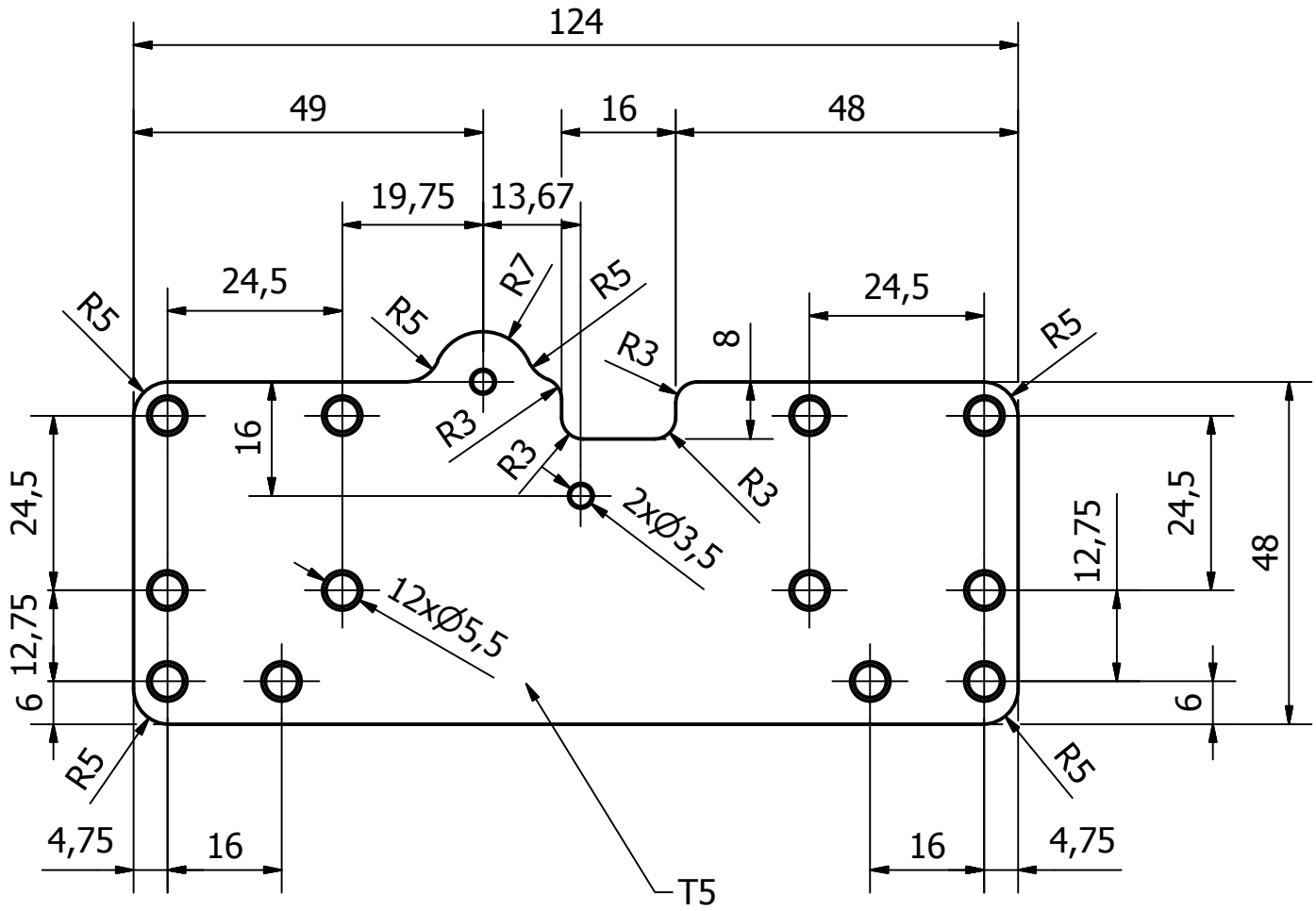
1) Vytvořte modely:
   - deska_horni_x-axis
   - deska_horni_x-axis_M_up
   - deska_horni_x-axis_M_up2
   - deska_horni_x-axis_Motor
   - deska_horni_x_ax_up

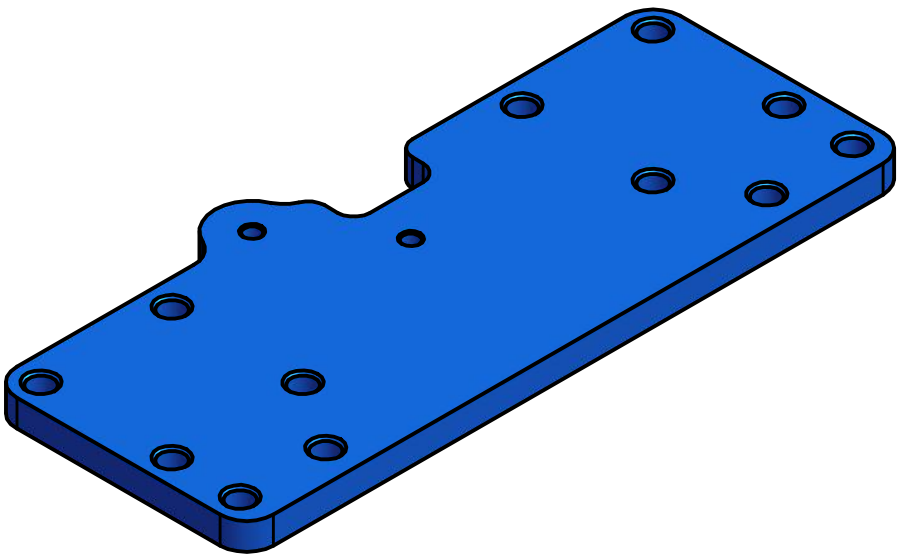
2) Vytvořte sestavu osy Y (sestavy Rapman). Jako základ použijte soubor sestavy RapMan_osa y_SOUTEZ.iam
   - Do sestavy použijte Vámi vytvořené součásti a ostatní vložte ze složky
   - Normalizované součásti vložte s Obsahového centra (podmínkou je rozměr součásti, NORMA se shodovat nemusí)

3) Celou sestavu vložte do sestavy RapMan_SOUTEZ.iam
   - Vytvořte ozubený řemenový převod osy z dle schématu
   - zapolohujte sestavu osy Y do sestavy pohyblivou vazbou s omezením
   - do sestavy RapMan vložte dále sestavu osy X (Rapman_osa_x.iam)
4) Vytvořte výkresy součástí uvedených v č. 1)

Po odevzdání zakřížkujte Vámi započaté úkoly.

Zadání:	**student3d1**		
Úkol 1	Úkol 2	Úkol 3	Úkol 4
Body za jednotlivé úkoly (vyplní komise):			
Celkem bodů (vyplní komise):			





1) hrany děr Ø3,5 sraženy 0,25x45°
2) hrany děr Ø5,5 sraženy 0,5x45°

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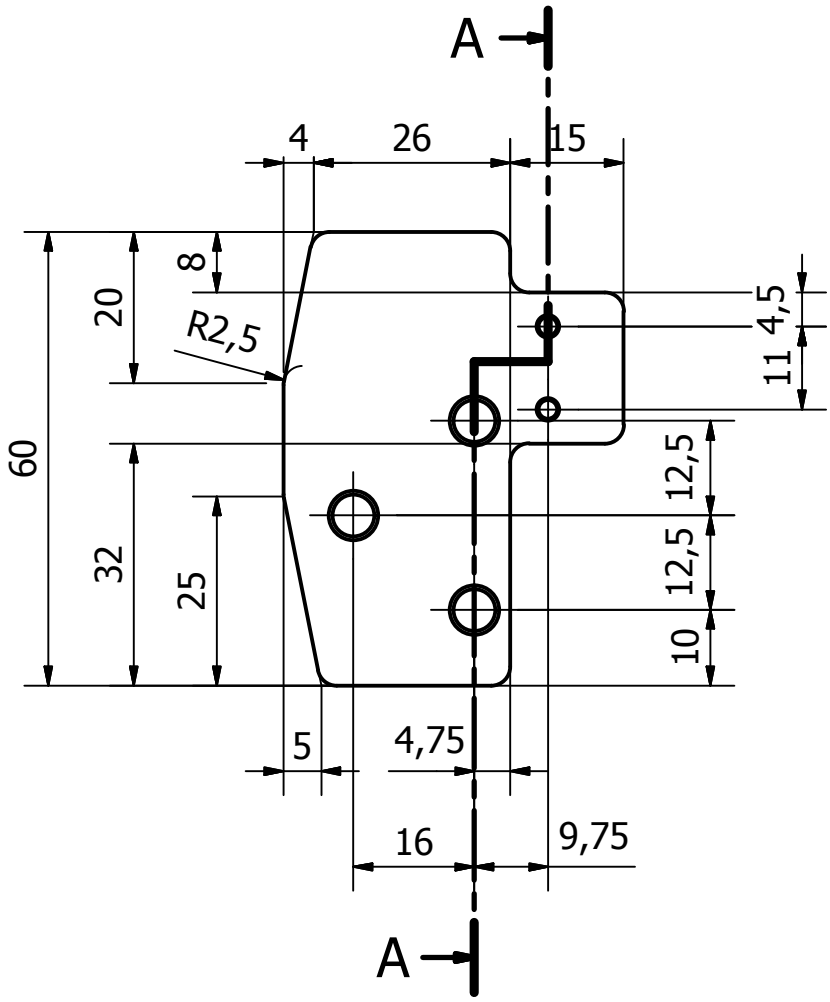
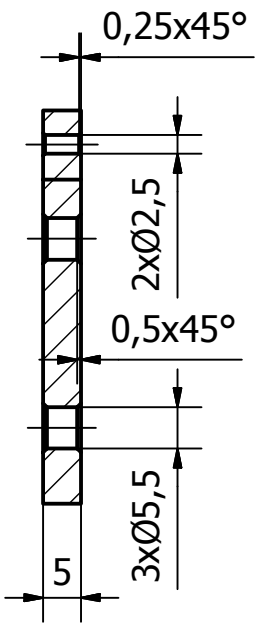
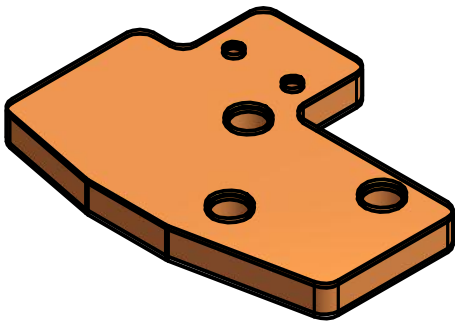
AAD 2012					16.3.2012	

deska_horni_X_axis	Edition	Sheet 1 / 1	







Nekótované rádiusy R=0,25

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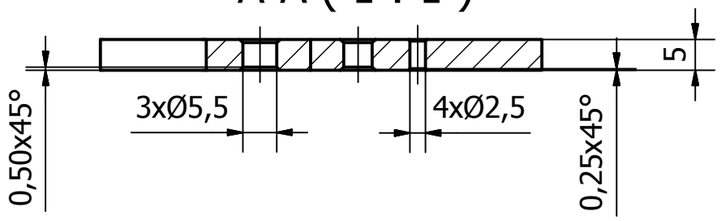
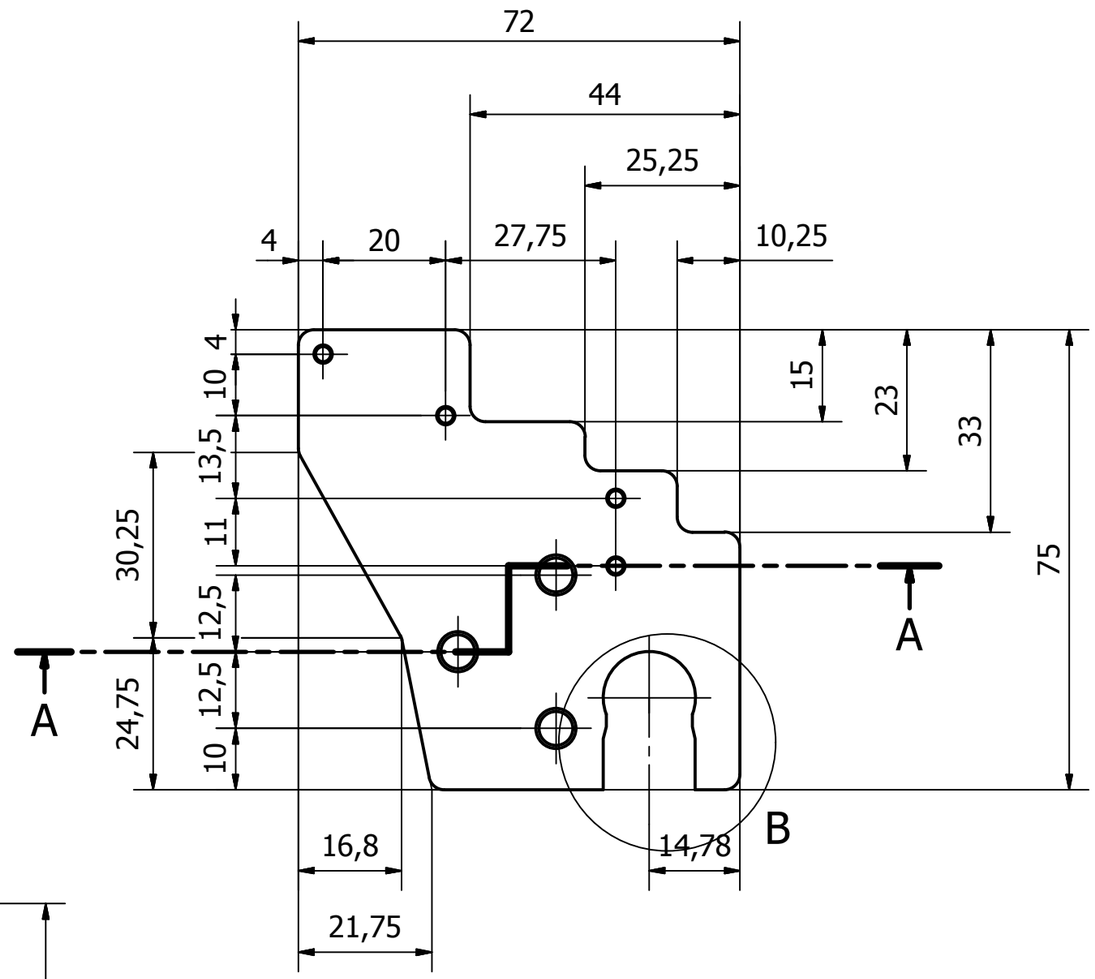
AAD 2012					17.3.2012	

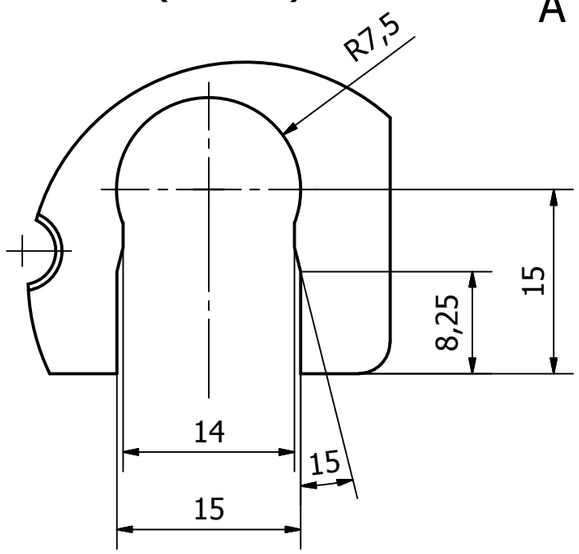
deska_horni_X_axis_M_up	Edition	Sheet	1 / 1

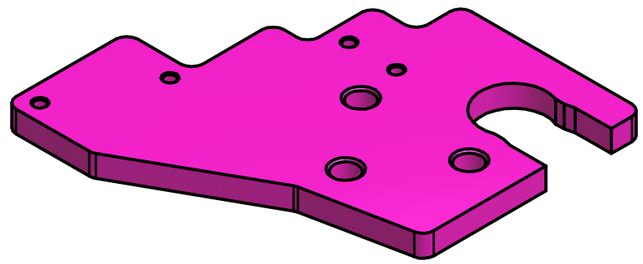
A-A (1 : 1)





B (2 : 1)

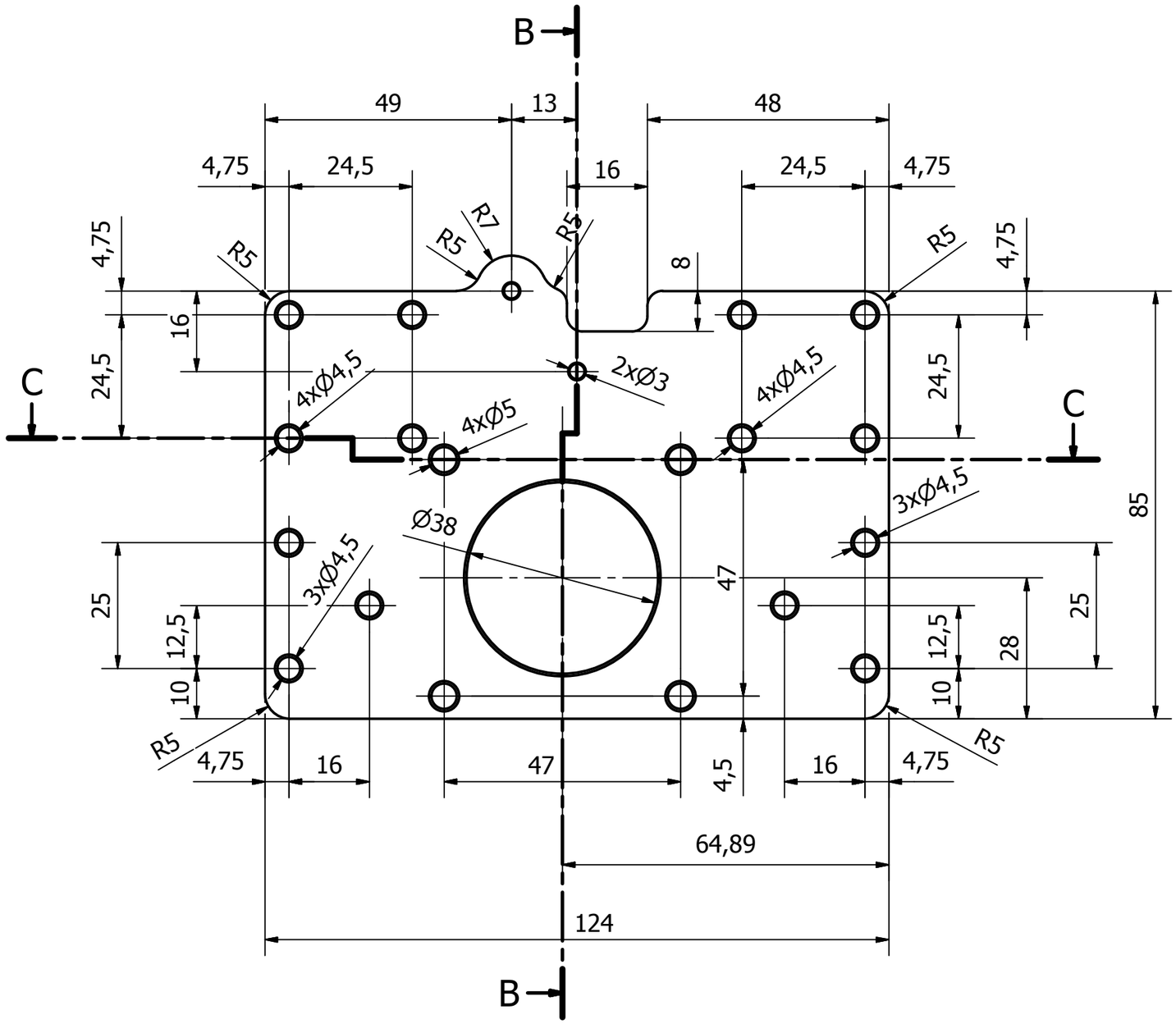




Nekótované rádiusy R=0,25

Designed by	Checked by	Approved by	Date		Date	
AAD 2012					17.3.2012	

deska_horni_X_axis_M_up2	Edition	Sheet 1 / 1	



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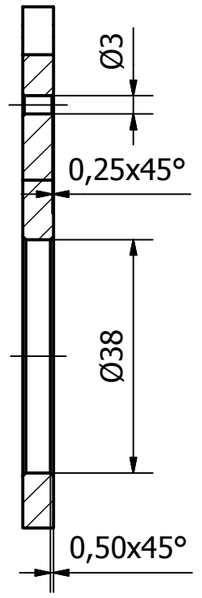
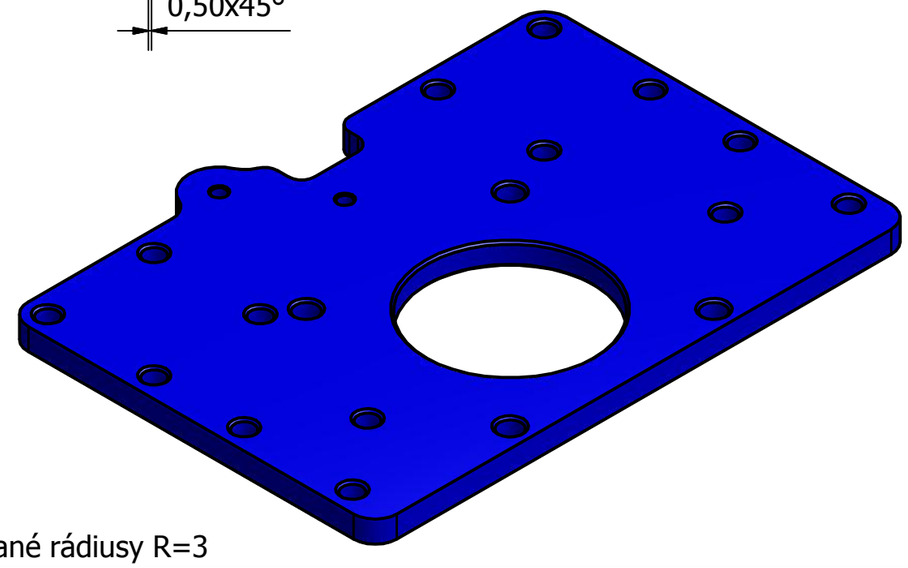
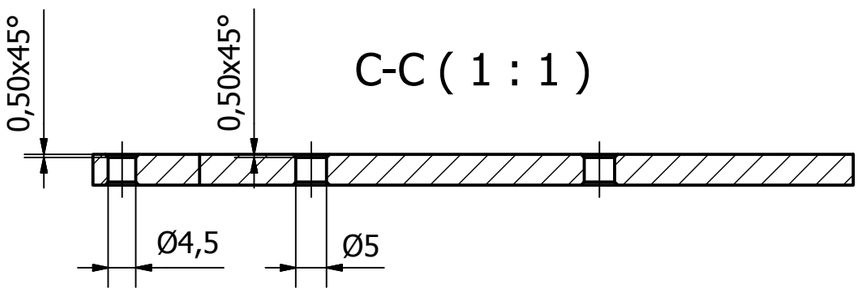




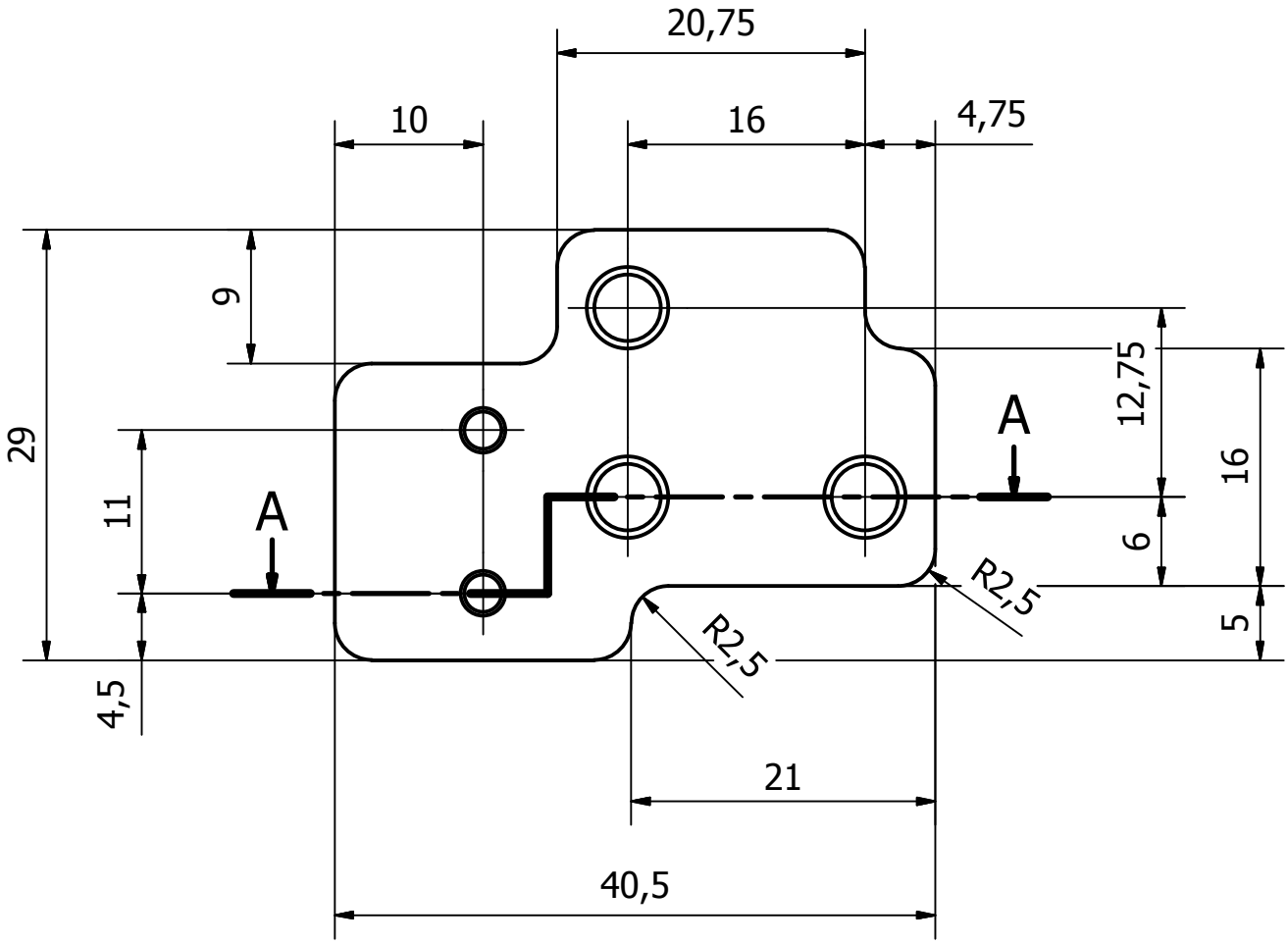


C-C (1 : 1)

Nekótované rádiusy R=3

Designed by	Checked by	Approved by	Date		Date	
AAD 2012					17.3.2012	

deska_horni_X_axis_Motor	Edition	Sheet 1 / 1	



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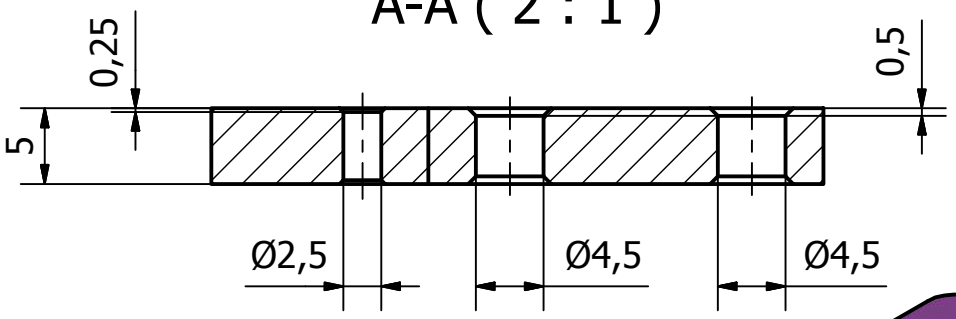

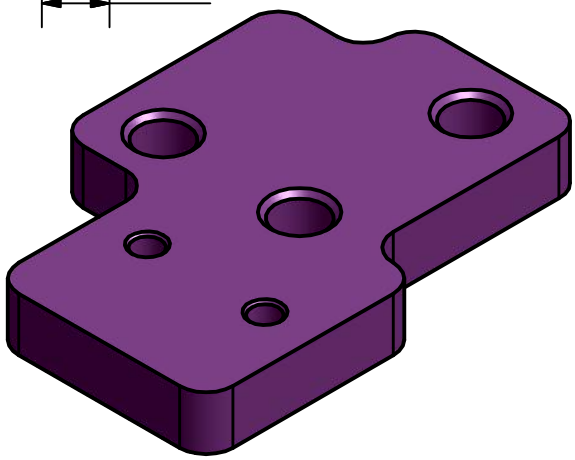

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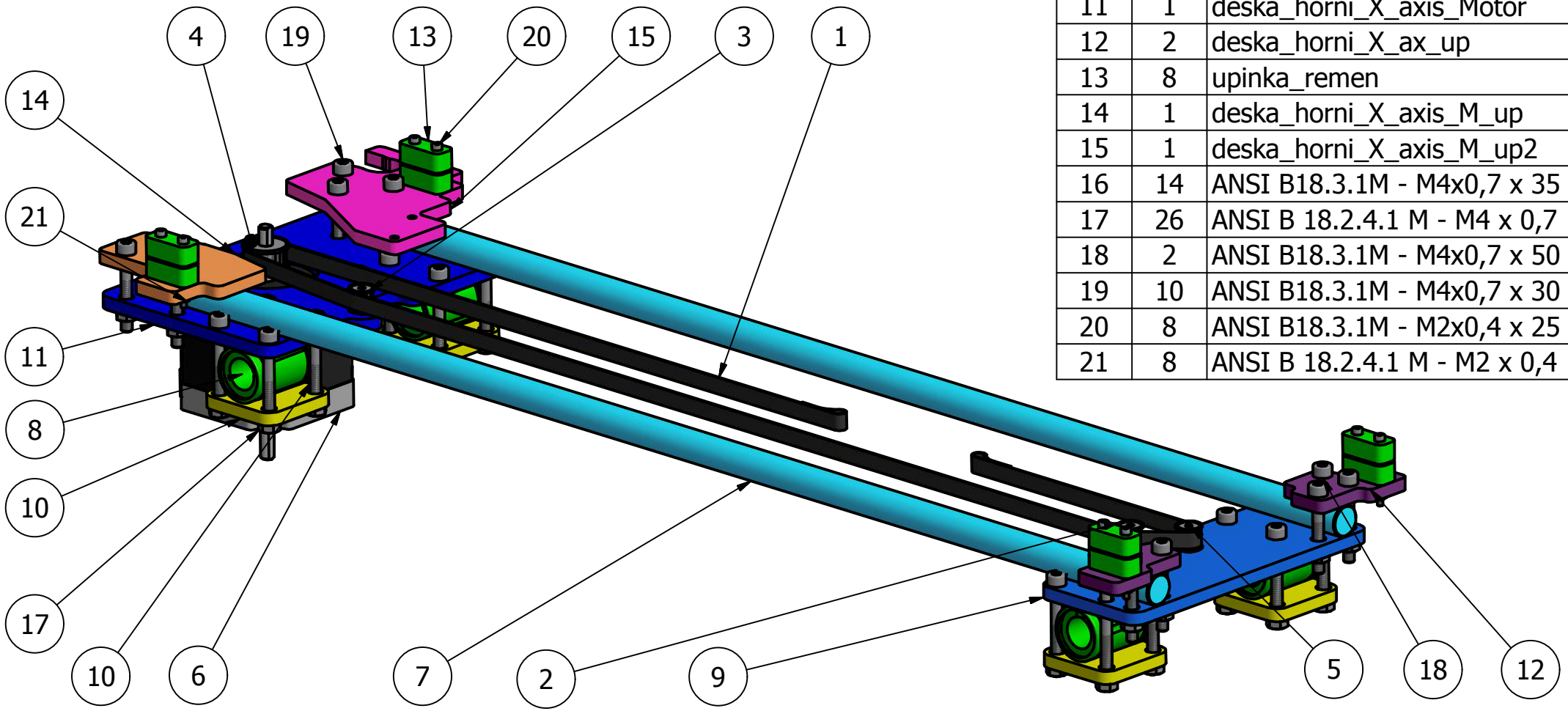
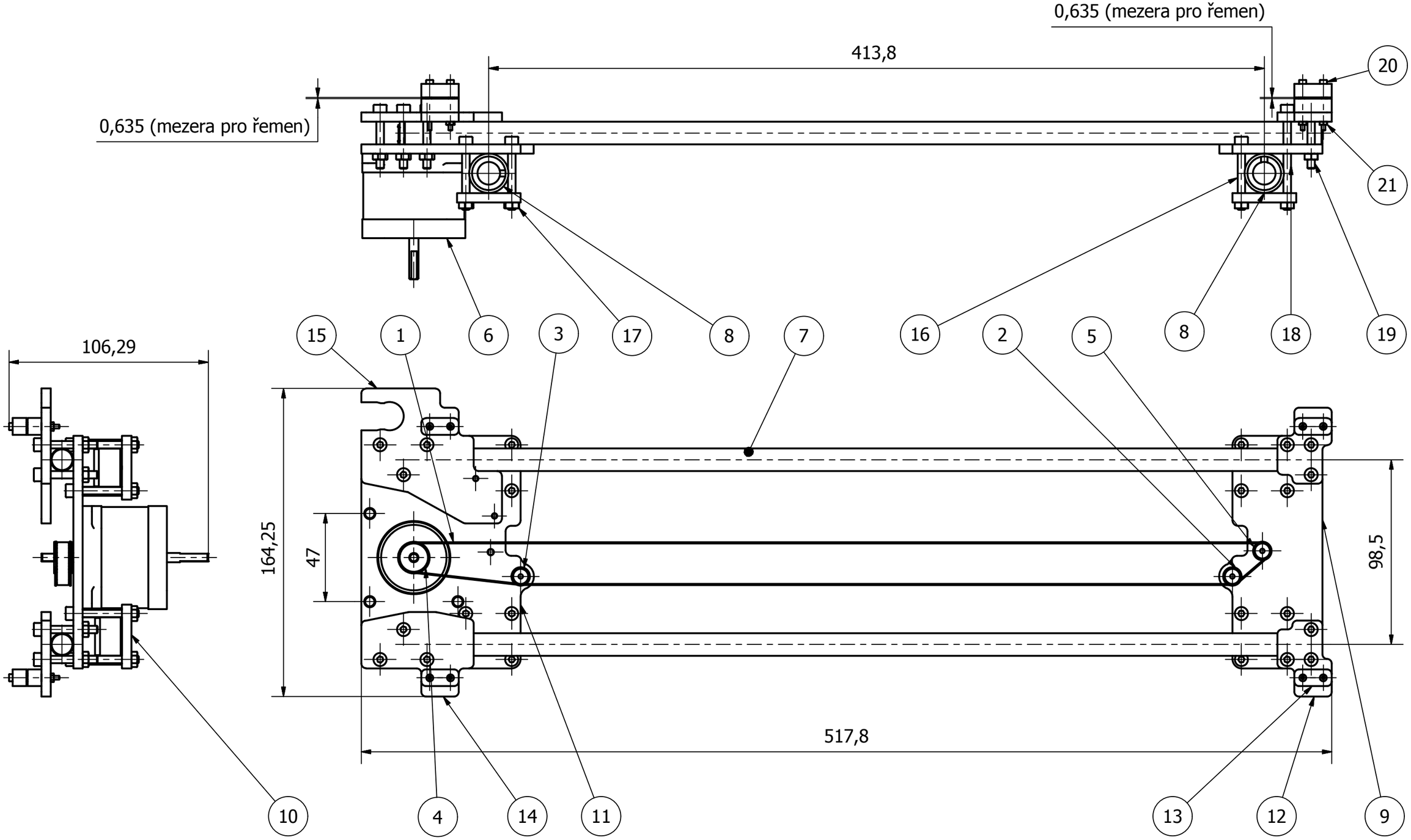
AAD 2012					16.3.2012	

deska_horni_X_ax_up	Edition	Sheet 1 / 1	

Rapman - osa y

PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	Synchronous Belt
2	1	Synchronous Pulley1
3	1	Synchronous Pulley4
4	1	Synchronous Pulley3
5	1	Synchronous Pulley2
6	1	motor_axis
7	2	tyc_d12-490
8	4	linearni lozisko
9	1	deska_horni_X_axis
10	4	deska_spodni_X_axis
11	1	deska_horni_X_axis_Motor
12	2	deska_horni_X_ax_up
13	8	upinka_remen
14	1	deska_horni_X_axis_M_up
15	1	deska_horni_X_axis_M_up2
16	14	ANSI B18.3.1M - M4x0,7 x 35
17	26	ANSI B 18.2.4.1 M - M4 x 0,7
18	2	ANSI B18.3.1M - M4x0,7 x 50
19	10	ANSI B18.3.1M - M4x0,7 x 30
20	8	ANSI B18.3.1M - M2x0,4 x 25
21	8	ANSI B 18.2.4.1 M - M2 x 0,4





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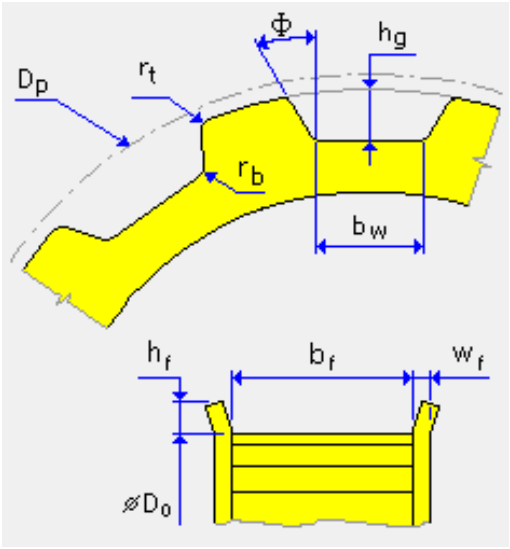
AAD 2012					22.3.2012	

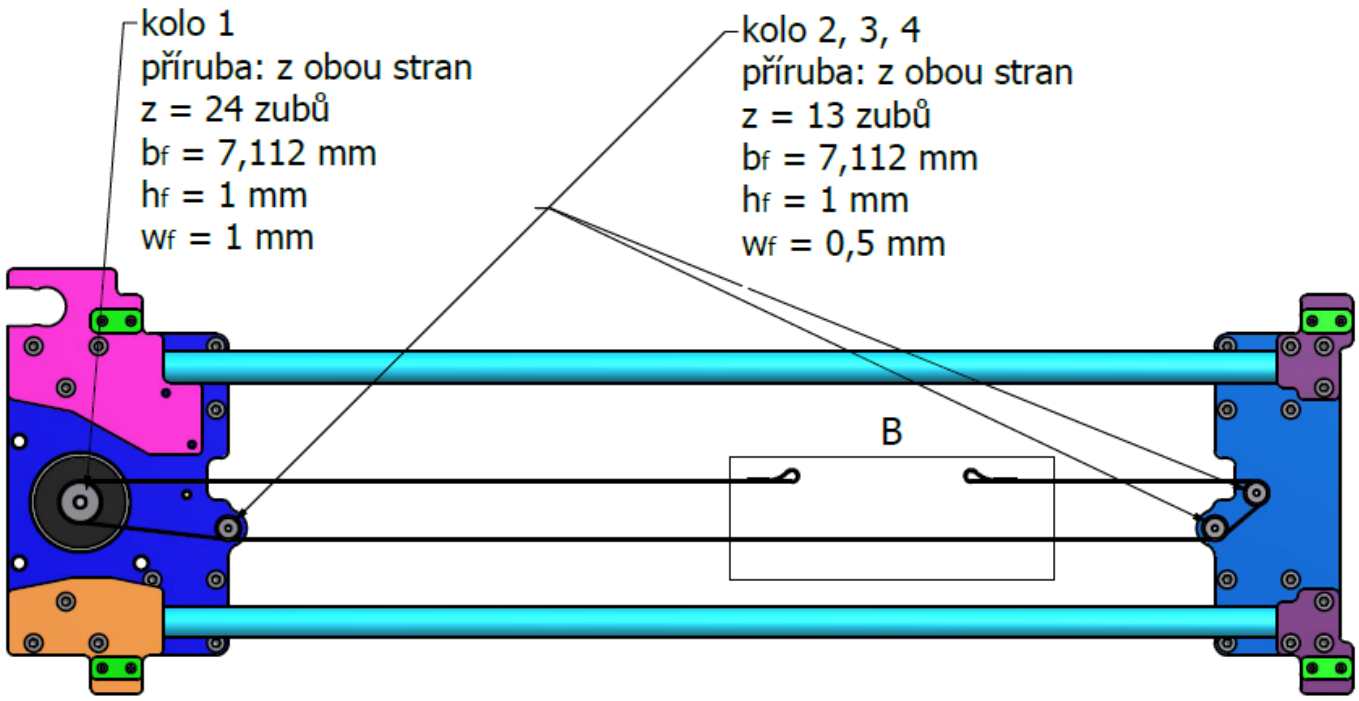
Rapman - osa y	Edition	Sheet 1 / 1

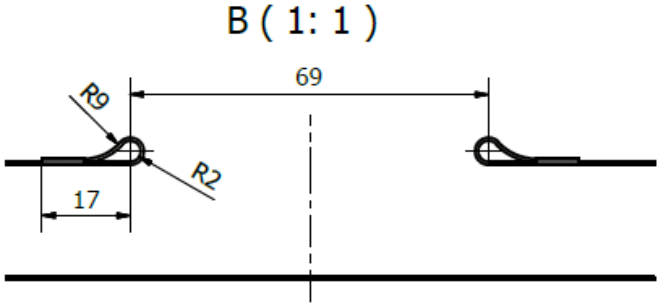
Úkol 3 – 3D student:

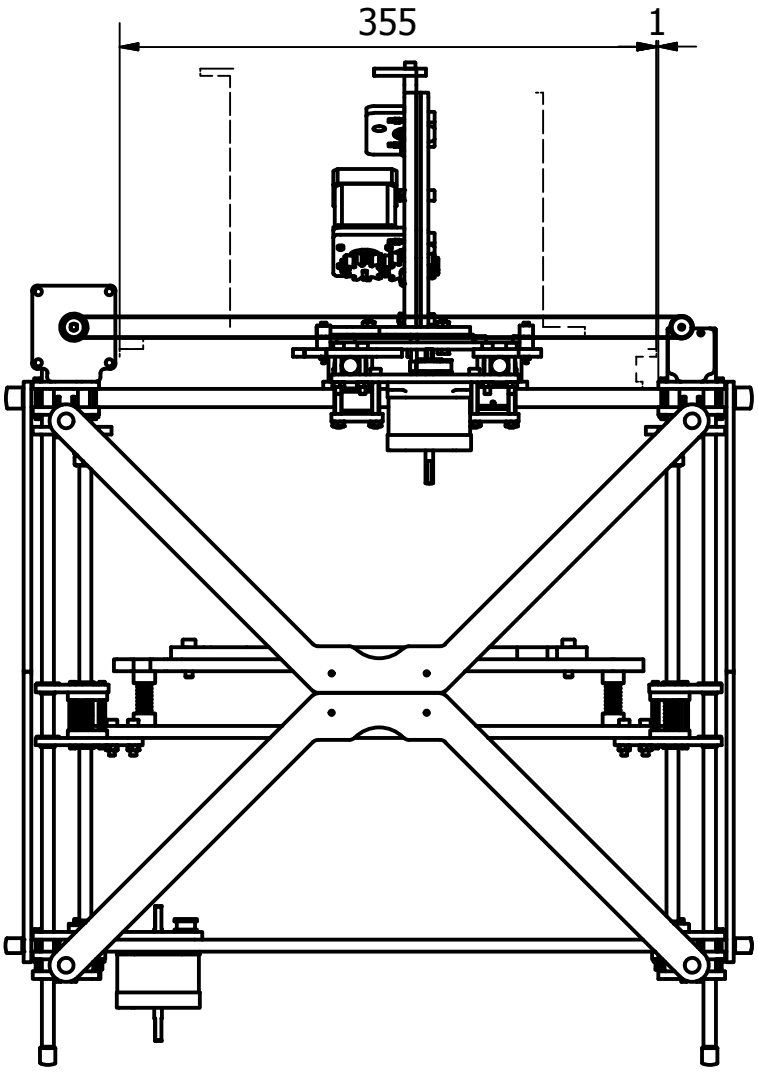
vytvořte ozubený řemenový převod v sestavě Rapman (viz. schéma)

rozměr kol s přírubami:








355
1