



# Belt / chain transmission with more sprocket wheels

i  Project information

## ? Input section

### 1.0 Basic input values

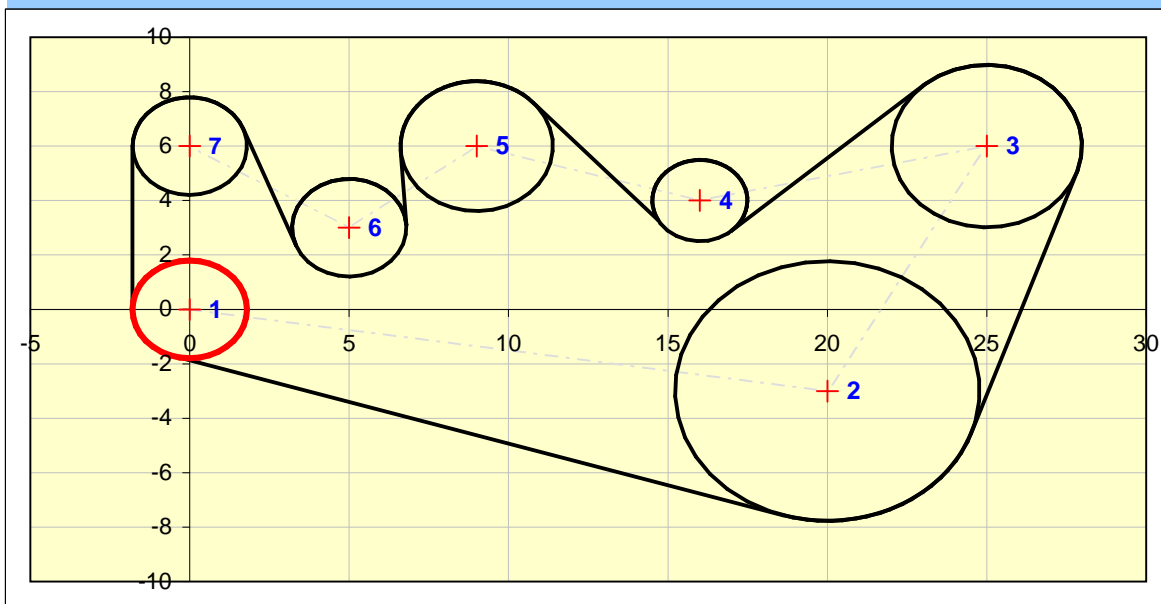
1.1 Units of calculation	Imperial (lbf, in, HP...)	
1.2 Type of calculation	Chain transmission calculation	
1.3 Pitch - toothed belt / chain	t	0,375 [in] 35, 06B, 06C, 081,083
1.4 Transferred power	P	10,00 [HP]
1.5 Speed of the driving sprocket wheel	n	1000 [/min]
1.6 Belt / chain slackside tensions in % of the effective pulling force		0 [%]

### 2.0 Calculation table / Calculation

#### 2.1 Coordinates and dimensions

A	B	C	D	E	F	G	H	I	J	K	L	M
ID	I/O	X [in]	Y [in]	Z	Dp [in]	% P	n [/min]	$\beta$ [°]	Z'	Fr [lbf]	a [in]	s [in]
1	<input type="checkbox"/>	0,00	0,00	30	3,588	100	1000,0	72,99	6	351,4	20,22	20,00
2	<input type="checkbox"/>	20,00	-3,00	80	9,552	45	375,6	87,97	20	395,0	10,30	10,14
3	<input type="checkbox"/>	25,00	6,00	50	5,972	10	600,7	150,66	21	340,0	9,22	8,06
4	<input checked="" type="checkbox"/>	16,00	4,00	25	2,992	20	1199,0	89,82	6	180,6	7,28	6,16
5	<input type="checkbox"/>	9,00	6,00	40	4,780	10	750,6	141,87	16	133,3	5,00	2,74
6	<input checked="" type="checkbox"/>	5,00	3,00	30	3,588	10	1000,0	162,60	14	69,7	5,83	4,60
7	<input type="checkbox"/>	0,00	6,00	30	3,588	5	1000,0	158,93	13	17,6	6,00	6,00
8	<input type="checkbox"/>				0,000							
9	<input type="checkbox"/>				0,000							
10	<input type="checkbox"/>				0,000							
11	<input type="checkbox"/>				0,000							
12	<input type="checkbox"/>				0,000							
13	<input type="checkbox"/>				0,000							
14	<input type="checkbox"/>				0,000							
15	<input type="checkbox"/>				0,000							

2.2 For table and graph recalculation press the button



### 3.0 Calculation of the length of the belt / chain

3.1 Total length of the belt / chain	Lw	93,49	[in]
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- 3.2 Number of teeth / chain links Z
- 3.3 Desired number of teeth / chain links Z'
- 3.4 Free sprocket wheel / direction
- 3.5 Calculation of a new position of the slackened wf

4.0  Graphical output, CAD systems

- 4.1 2D drawing output to:
- 4.2 2D drawing scale:
- 4.3 Overlap a   [in]
- 4.4 Overlap b   [in]
- 4.5 Table of parameters

