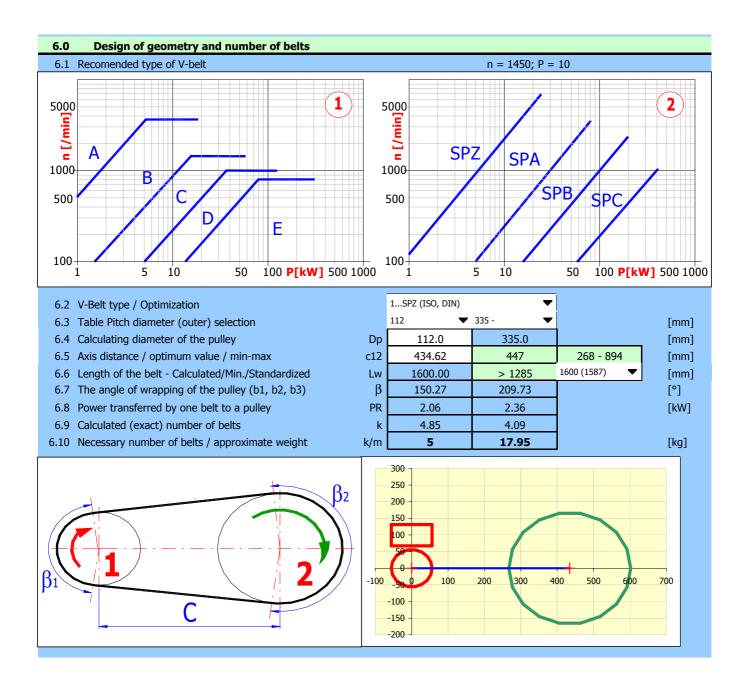
Belt transmissions - V-belts [mm]					
i Calculation without errors.		Pulley 1	Pulley 2	Pulley 3	
ii Project information					
?	V-Belts,	. 3 Pulleys			
1.0 Manner of loading, operational parameters					
2.0 Design of geometry and number of belts	2.0 Design of geometry and number of belts				
3.0 Results, coefficients	3.0 Results, coefficients				
4.0 Pulley and belts dimensions					
? V-Belts, 2 Pulleys					
5.0 Manner of loading, operational parameters					
5.1 Transferred power / power distributed to pulleys	Р	10	9.67		[kW]
5.2 Speed of pulleys	n	1450.0	479.8		[/min]
5.3 Transmission ratio	i		3.022		
5.4 Torque	Mk	65.86	192.46		[Nm]
5.5 Type of driving units (loading)	Type of driving units (loading) AContinuous or light shocks ▼				
5.6 Types of driven machine (loading)		BMedium duty		▼	
5.7 Daily loading of the transmission		COver 16 hours		▼	
5.8 Belt slip coefficient		1.03	1.03	<b>✓</b>	[%]
5.9 Transmission efficiency		96.7	96.7	<b>✓</b>	[%]
5.10 Automatic design - press the button					



## 7.0 Results, coefficients 7.1 Coefficients 7.2 - Coefficient of wrapping angle 7.3 - Coefficient of operational loading 7.4 - Coefficient of belth length Axis distance adjustability 7.6 - For tightening of the belt 7.7 - For easier installation of the belt 7.8 Force conditions, speed 7.9 - Coefficient of safety

c3	1.00	
х	16.55	
у	19.13	

1.06

0.92

1.3

c1

c2

[mm]
[mm]

7.10	- Belt speed /	max. fo	or the	given type
------	----------------	---------	--------	------------

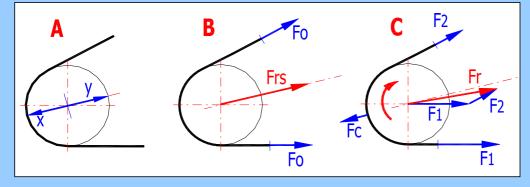
7.11	- Bending frequency of the belt	
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- 7.12 Tensile force
- 7.13 Centrifugal force
- 7.14 Prestressing of the belt
- 7.15 Static force on the shaft (at rest)
- 7.16 Force in the loaded belt strand
- 7.17 Force in the unloaded belt strand
- 7.18 Total radial force on the shaft (bearings)

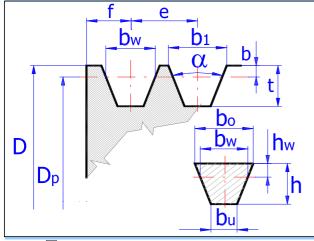
	1.150	1.15	4
٧	8.50	< 40	
fs	11		
Fu	1176.02		
Fc	26.39		
Fo	1042.84		
Frs	2015.87		
F1	1630.85		
F2	454.83		
E۰	2020.22		

[m/s] [/s] [N] [N] [N] [N] [N] [N]

[N]



8.0 **Pulley and belts dimensions** 



8.5		
9.7		
4	Belt dimensions	
8		
2		
116.00	339.01	
112.00	335.01	
36	36	
9.7		
8	Pulley dimensions	
12		
2		
11		
64	Pulley	width
	9.7 4 8 2 116.00 112.00 36 9.7 8 12 2 11	9.7 4 Belt dim 8 2 116.00 339.01 112.00 335.01 36 36 9.7 8 12 Pulley dim 2 11

[mm] [mm] [mm] [mm] [mm] [mm] [°] [mm] [mm] [mm] [mm] [mm] [mm]

[mm]