

# Design data for the calculation of plastic rollers

Company:	Address:
Contact person:	
Phone number:	
E-mail:	

1. Operating System	roller/surface plane	
	roller/roller	
2. Construction of the roller	cylindrical	
	vaulted	
3. Diameter of roller		mm
4. Width of roller		mm
5. Diameter of the shaft		mm
6. Charge	a) static	N
	b) dynamic	N
7. Radius of the crowned roller surface		
8. Radius of the crowned contact surface		
9. Bearing application	roller bearing	
	slide bearing	
10. Material of shaft		
11. Surface hardness of the shaft for slide bearing		HRC
12. Surface roughness of the shaft for slide bearing Ra		µm
13. Operating stress	continuous use	intermittent use
	operating factor =	%
14. Running speed		m/s
or revolutions		1/min
15. Lifespan		Std.
16. Maximal stop period under weight		Std.

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17. Counterpart	
18. Allowable flattening	mm
19. Allowable depression of shaft	mm
20. Ambient temperature	°C
21. Environment	
22. Special conditions	

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