

Questionnaire

Technical Data – for the Layout of Belt Conveyor Systems

Company Person in charge

Project Name

Project No. Phone

Country Email

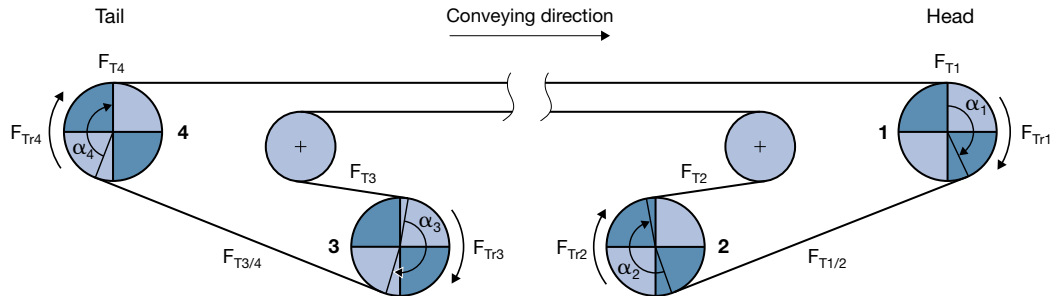
Location of use	Outdoors	- open
		- covered
	Underground	
	Indoor	
Details of climatic conditions		
Conveying flight (provide a diagram on page 4 of the questionnaire if necessary)	Centre distance	m
	Conveying length L	m
	Conveying height H	m
	Gradient of the system δ	° uphill downhill
	Section with maximum (descending) gradient δ_{max}	°
	Curve – convex: Radius R_e	m - concave: Radius R_a m
	Sections with differing gradients	
Material flow	Conveying speed v	m/s
	Mass flow I_m	t/h
	Volume flow I_v	m ³ /h
	Degree of uniformity of mass or volume flow	
	Load coefficient	
Properties of the material handled	Designation of the material handled	
	Bulk density ρ	t/m ³
	Angle of repose β	°
	Temperature permanent	°C max. °C min. °C
	Max. lump size	mm
	Chemically corrosive	
	Sharp-edged	
	Wet	

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Material feed	Feeding direction	– in longitudinal direction	
		– in transverse direction	
	Height of fall		m
	Garland idlers	Troughing angle	°
	Impact idlers		
	Feeding device (impact plates or similar)		
	Chute constriction	Length of constriction	m
Material discharge	Via head pulley		
	Tripper car		
	Scraper		
Conveyor belt	Width B		mm
	Endless belt length		m
	Support on top run:	on carrying idlers	sliding
	Support on return run:	on carrying idlers	sliding
		with support rings	
Idlers – Top run	Carrying idler arrangement	-part	Troughing angle λ_o
			Spacing l_o
	Mass (rotating components of an idler set) m_{Ro}		kg
	Moment of inertia		kg/m ²
	Diameter d_{Ro}		mm
	Tilted position		
	Flat-to-trough transition length l_U	mm	Pulley lift h_{Tr}
Trough-to-flat transition length l_U	mm	Pulley lift h_{Tr}	mm
– Return run	Return idler arrangement	-part	Troughing angle λ_U
			Spacing l_U
	Mass (rotating components of an idler set) m_{Ru}		kg
	Diameter d_{Ru}		mm
	Tilted position		



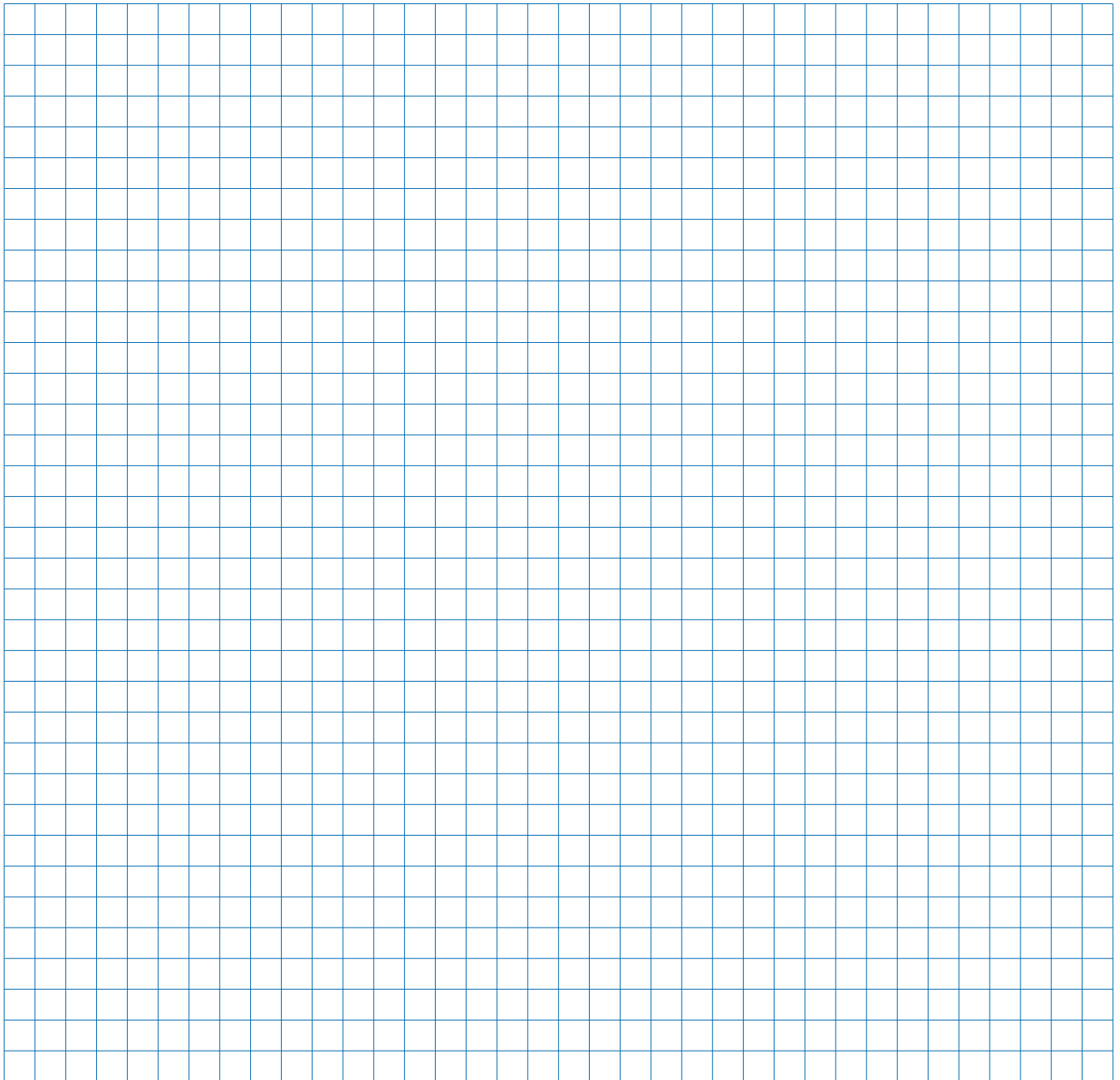
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Pulleys driven/braked	Diameter D_{Tr}	1	2	3	4	mm
	Angle of wrap	α_1	α_2	α_3	α_4	°
	Pulley surface	bare	rubberized	ceramic		
	Condition	dry		wet		
Drives	Number of drives at	Pulley 1:	Pulley 2:	Pulley 3:	Pulley 4:	
	Power (total)	- installed	$P_{M\ inst}$	kW		
		- estimated	$P_{M\ inst}$	kW		
	Slip ring motor	Squirrel cage motor				
		Starting aid				
	Starting factor	p_A	(related to the motor torque in the steady operating state at rated mass flow):			
	p_{A0}	(related to the rated motor torque):				
Start-up-time	t_A	s				
Braking	Number of brakes on	Pulley 1:	Pulley 2:	Pulley 3:	Pulley 4:	
	Total braking torque (related to the motor shaft)					Nm
	Braking factor	p_B	(related to the motor torque in the steady operating state at rated mass flow):			
		p_{B0}	(related to the rated motor torque):			
Braking distance	s_B	m				
Takeup device	Takeup pulley	– flying		– fixed		
	Takeup device at	System head		System tail		
	Existing takeup length	m				
Conveyor belt cleaning	Scraper					
	Other devices					
	Belt turnover	Further details				
Conveyor belt type	New system	Projected design				
	Extension					
	Replacement	Previous design				
		Suitability satisfactory		yes	no	
Observations						
Conveyor belt splicing	In-situ curing	Mechanical fastener				
	Delivery	open	endless			

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Space for sketches



**PHOENIX CONVEYOR BELT
SYSTEMS GMBH**

Hannoversche Strasse 100
D-21079 Hamburg, Germany
Phone +49-40-7667-03
Fax +49-40-7667-2411
E-mail info@phoenix-cbs.com
www.phoenix-conveyorbelts.com