PHOENIX Conveyor Belts

Questionnaire

Technical Data –
for the Layout of Belt Conveyor Systems

Company .....

Project Name .....

Project No. .....

Country .....

Person in charge

Phone

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	°
	Temperature ..... permanent ..... °C min. ..... °C max.	°C
	Max. lump size	mm
	Chemically corrosive	☐
	Sharp-edged	☐
	Wet	☐

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Material feed	Feeding direction – in longitudinal direction ☐	
	– in tranverse 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 m
	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 $l_Ü$ mm	Pulley lift h_{Tr} mm
	Trough-to-flat transition length $l_Ü$ mm	Pulley lift h_{Tr} mm
– Return run	Return idler arrangement -part	Troughing angle λ_u °
		Spacing l_u m
	Mass (rotating components of an idler set) m_{Ru}	kg
	Diameter d_{Ru}	mm
	Tilted position	

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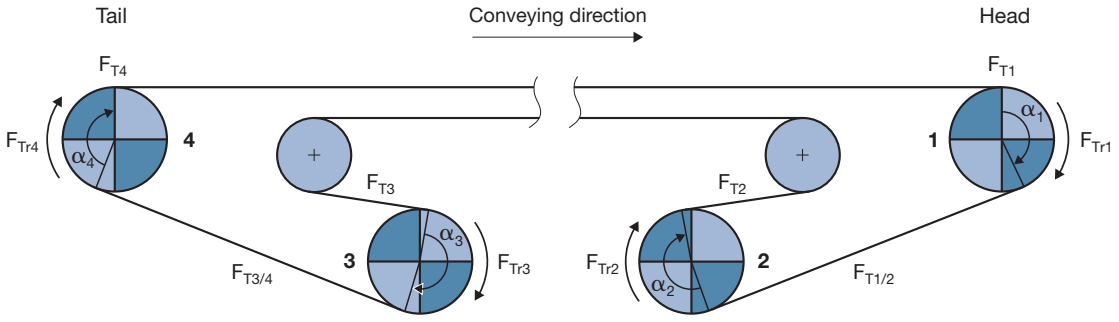

Pulleys driven/braked	Diameter D_{Tr}	: 1 ..... , 2 ..... , 3 ..... , 4 ..... mm
	Angle of wrap	: α_1 ..... , α_2 ..... , α_3 ..... , α_4 ..... °
	Pulley surface	: bare ..... ☐ rubberized ..... ☐ Ceramic ..... ☐
	Condition	: dry ..... ☐ wet ..... ☐
Drives	Number of drives at	Pulley 1: ..... Pulley 2: ..... 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 ..... ☐	Required design .....
	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

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Send Questionaire

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