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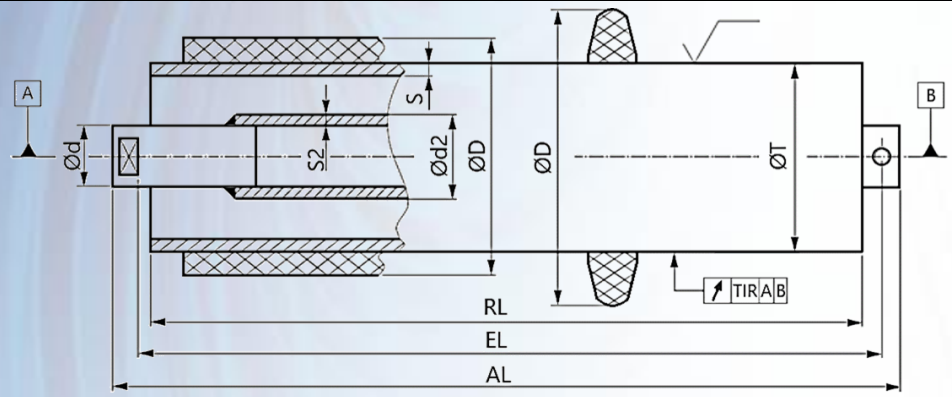
Request Form for Belt Conveyor Rollers & Idlers

► Company	
Country	
► Mine	
► Conveyor Nr.	
Contact person	
Phone	
► Email	
► Date (dd.mm.yyyy)	

Please send us the request even if you are currently missing any information.
The most important (mandatory) fields are marked with "►".
Please fill out as many of these fields as possible to ensure precise calculation results.



Roller Design

If the design of the roller should be estimated or reviewed, please fill out also the page 2.

Idler Type by Task		Carry	Return	Impact
Item ID-Number	–			
Item Description (e.g. "middle roller")	–			
►Quantity	[pieces]			
►Roller Diameter (incl. Lagging), ØD	[mm]			
►Tube Diameter, ØT	[mm]			
►Tube Thickness, S	[mm]			
►Roller Length, RL	[mm]			
Axle Length, AL	[mm]			
►Clamping Length, EL	[mm]			
►Shaft Diameter (inside Roller), Ød2 or Ød2 x S2 in case of hollow shaft	[mm]			
►Shaft End Diameter, Ød	[mm]			
►Bearing Size	–			
►Extra Weight Reduction	[Y / N]	☐	☐	☐
For explosive environments (ATEX)	[Y / N]	☐	☐	☐
Extra Noise Reduction (silent roller)	[Y / N]	☐	☐	☐
Extra corrosion protection necessary	[Y / N]	☐	☐	☐
►Anti-Rollback Roller (one rotation direction)	[Y / N]	☐	☐	☐
►Lagging — Type (Coating / A = Assembled)		☐ Coating	☐ Coating ☐ A	☐ Coating ☐ A
►Lagging — Form (R = Rings / C = Cylindric / S = Spiral)		☐ C	☐ R ☐ C ☐ S	☐ R ☐ C
►Lagging — Material (PU / Ru = rubber / Ce = ceramics)		☐ PU ☐ Ce	☐ PU ☐ Ru ☐ Ce	☐ Rubber
Only for roller **without** lagging: ► Balance Class acc. to ISO1940 (G40 = standard value)		G16 ☐ G25 ☐ G40 ☐	G16 ☐ G25 ☐ G40 ☐	G16 ☐ G25 ☐ G40 ☐
Add. Information:				

► Mine	
► Conveyor Nr.	
► Date (dd.mm.yyyy)	

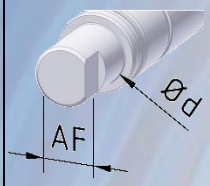
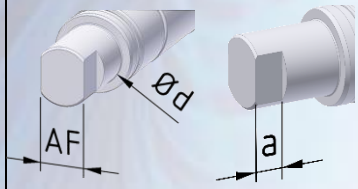
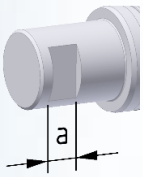
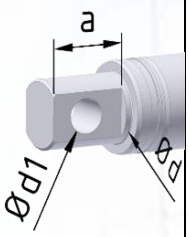
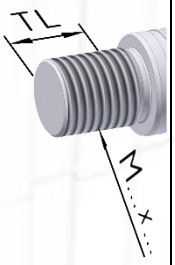
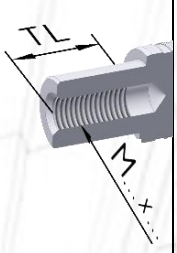
1. Load or CEMA Class (If both unknown, fill out sections 4.-8.)		
► max. Load on one Roller (Radial)	[N]	
► CEMA Idler Class (B to F) (information to belt width, roller arrangement, trough angle, type of idler necessary)	–	
Target Calculated Bearing Lifetime	[h]	
2. Ambient conditions		
Min. Ambient Temperature	[°C]	
Max. Ambient Temperature	[°C]	
3. General Conveyor Specification		
► Capacity	[t/h]	
► Belt Speed	[m/s]	
► Reversible Belt Conveyor	[Y / N]	☐
Conveying Distance	[m]	
Inclination	[°]	
Length of Inclined Section	[m]	
► Convex Curve Radius	[m]	
Convex Curve Deflection (alternatively to Curve Radius)	[°]	
Horizontal Curve Radius	[m]	
4. Power and Belt Tension		
► Max. Belt Tension Carrying Side	[kN]	
► Max. Belt Tension Return Side	[kN]	
Take-up Mass	[kg]	
Installed Power	[kW]	
Drive Efficiency	[%]	
Add. Information:		

5. Belt Details		
► Belt Width	[mm]	
► Belt Mass (one of field must be filled)	[kg/m]	
	[kg/m²]	
Alternatively (if Belt Mass unknown):		
Belt Type	Steel Cord ☐	Textile ☐
Belt Designation (e.g. "ST1250" or "EP800/5")		
Belt Thickness	[mm]	
6. Conveyed material		
Material Description		
► Average Bulk Density	[kg/m³]	
Angle of Repose	[°]	
Surcharge Angle	[°]	
► Max. Lump Weight	[kg]	
► Max. Lump Size	[mm]	
► Granulation:	Fine grain ☐	Single small lumps ☐
	Coarse with fine grain ☐	Coarse without fine grain ☐
		Coarse lumps only ☐
►Material Properties:	hot (> +60 °C) ☐	sticky ☐
		corrosive (specify) ☐
	cold (< -30 °C) ☐	dusty ☐
		abrasive ☐
Add. Information:		

7. Idler Design					
Idler Type by Task			**Carry**	**Return**	**Impact**
►Idler Type by Roller Fastening		Rigid Frame Idler	☐	☐	☐
		Garland Idler	☐	☐	☐
►Roller arrangement		1-part	☐	☐	☐
		2-part	☐	☐	☐
		3-part, equal roller length	☐	☐	☐
		3-part, short middle roller	☐	☐	☐
		3-part, long middle roller	☐	☐	☐
		5-part	☐	–	☐
	Other (provide separate description)		☐	☐	☐
►Trough Angle		[°]			
►Lump Fall Height (free fall height in loading area)		[m]	–	–	
►Idler Spacing		[m]			
►Idler Spacing in Convex Curve (if different)		[m]			
Idler Installation Alignment Tolerance (max. height difference of adjacent idlers)		[mm]			
Add. information:					

► Mine	
► Conveyor Nr.	
► Date (dd.mm.yyyy)	

8. Design of Roller Shaft End

A1	A2	B2 (limited)	G1	G2	AG	IG
						

Idler Type by Task			Carry	Return	Impact
Type of Shaft End (multiple choice possible)	A1 = one-sided flattened shaft		☐	☐	☐
	A2 = two-sided flattened shaft		☐	☐	☐
	B2 = two-sided limited flattened shaft		☐	☐	☐
	C2 = with two-sided flattened end caps		☐	☐	☐
	G1 = shaft with two cross holes (for garland roller)		☐	☐	☐
	G2 = two-sided flattened shaft with two cross holes (for garland roller)		☐	☐	☐
	IG = inner thread (please specify the size)		☐	☐	☐
	AG = external thread (please specify the size)		☐	☐	☐
	AG + Hex Nut = external thread + special hexagon nut (please specify the size)		☐	☐	☐
	Thread Size (diameter x length) (acc. to ISO1502 - metric screw threads)				
► Shaft End Diameter, Ød		[mm]			
Flat Depth, a		[mm]			
Width Across Flat, AF		[mm]			
For Garland Roller:	► Diameter of Bore Hole, Ød1	[mm]			
	Link Pitch Length	[mm]			
	Suspension Type of Garland Idlers (“B” / “BS” / “H” / “K” / “N”):	For more details please visit: **www.kuepper.eu/en/** → search for “garlands suspensions”			► with damper ☐
Additional Information:					