

IMAS Conveyor Belts

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Contact Details	Customer :				
	Project name :	Conveyor name / number			
	Contact Person :	Email :			
	Tel. :	Address :			
General Information	Place of Application	Indoors <input type="checkbox"/>	Outdoors <input type="checkbox"/>	Underground <input type="checkbox"/>	
	Environmental Temperatures	Min.....°C	Max.....°C	Average.....°C	
	Environmental Conditions	Very dry <input type="checkbox"/>%	Normal <input type="checkbox"/>%
		Humid <input type="checkbox"/>%	Very Humid <input type="checkbox"/>%
	Climatic conditions	European <input type="checkbox"/>		Tropical <input type="checkbox"/>	Polar <input type="checkbox"/>
		Subtropical <input type="checkbox"/>		Desert <input type="checkbox"/>	
	Special conditions	Flamable materials	<input type="checkbox"/>	Combustible dust or conveyed material	<input type="checkbox"/>
		Fuel sources	<input type="checkbox"/>	Limited access or means of escape	<input type="checkbox"/>
		Other			
	Flame resistance needed ?		Yes <input type="checkbox"/>	No <input type="checkbox"/>	
If yes according to which Norms		Flame Resistant Grade			
System Information	Center Distance	..... m	Reversible	Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Diference between highest and lowest point	.....m			
	Conveying Direction	Incline <input type="checkbox"/>	Decline <input type="checkbox"/>	Max incline / Decline	.....% or°
		Conveyor Performance	Mass <input type="checkbox"/>	Average	.....t/h
		Volume <input type="checkbox"/>	Average	.....m ³ /h	Maximum
				.....m ³ /h	
	Reason for belt supply :	Replacement <input type="checkbox"/>	Extension <input type="checkbox"/>	New system <input type="checkbox"/>	
	<i>If it is a replacement belt then :</i>				
	Previous belt type		Manufacturer		
	Date of installation		Remaining cover thickness.....		
	Operating hours since installation		tonnage since installation.....		
	Date of intended replacement		Reason of replacement.....		
	General belt condition			
Comments from the user				

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Conveyed Material Properties	Designation of conveyed material							
	Temperature	min°C	max°C	Glowing embers Yes <input type="checkbox"/> No <input type="checkbox"/>				
	Chemical composition	Corrosive chemicals Yes <input type="checkbox"/> No <input type="checkbox"/>						
	Bulk density	t/m ³	Lump size	mmX mmX mm Angle of repose °				
	Particle distribution of bulk material Moisture content..... %							
	Form of lump	Spherical <input type="checkbox"/>	Irregular <input type="checkbox"/>	Granulat <input type="checkbox"/>	Granulat to dusty <input type="checkbox"/>	Sharp edged <input type="checkbox"/>	Blunt edged <input type="checkbox"/>	
Belt details	Belt type		Cover Grade (top/bottom)/.....					
	Belt Speed	m/s	Belt width.....	mm Endless belt length..... m				
	Max Belt Tensions	Running		kN Starting/Breaking .....kN /.....kN				
	Min safety factor	Running		Starting/Breaking/.....				
	Splice type		Mechanical Fasteners					
Belt Conveyor Layout Divided into Sections	Section 1		Length	m	Height difference	m	Incline <input type="checkbox"/>	Decline <input type="checkbox"/>
	Horizontal curve		Convex <input type="checkbox"/>	Radius	m	Vertical Curve <input type="checkbox"/>	Radius.....	m
			Concave <input type="checkbox"/>	Radius.....	m			
	Section 2		Length	m	Height difference	m	Incline <input type="checkbox"/>	Decline <input type="checkbox"/>
	Horizontal curve		Convex <input type="checkbox"/>	Radius	m	Vertical Curve <input type="checkbox"/>	Radius.....	m
			Concave <input type="checkbox"/>	Radius.....	m			
	Section 3		Length	m	Height difference	m	Incline <input type="checkbox"/>	Decline <input type="checkbox"/>
	Horizontal curve		Convex <input type="checkbox"/>	Radius	m	Vertical Curve <input type="checkbox"/>	Radius.....	m
			Concave <input type="checkbox"/>	Radius.....	m			
	Section 4		Length	m	Height difference	m	Incline <input type="checkbox"/>	Decline <input type="checkbox"/>
	Horizontal curve		Convex <input type="checkbox"/>	Radius	m	Vertical Curve <input type="checkbox"/>	Radius.....	m
			Concave <input type="checkbox"/>	Radius.....	m			
Feed - Discharge details	Feeding System	Chute <input type="checkbox"/>	Feeder belt <input type="checkbox"/>	Rock box <input type="checkbox"/>				
	Impact protection	Impact saddle <input type="checkbox"/>	Impact Idlers <input type="checkbox"/>	Other <input type="checkbox"/>				
	Material speed	m/sec	Drop height	m Inclined loading <input type="checkbox"/> angle				
	Feeding direction	Longitudinal <input type="checkbox"/>	Transverse <input type="checkbox"/>	Other <input type="checkbox"/> angle to direction of travel				
	Material discharge	Head pulley <input type="checkbox"/>	Tripper car <input type="checkbox"/>	Scraper <input type="checkbox"/>				

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Idler details	Top run				
	Carrying idler arrangement - part	Troughing angle λ °	Idler spacing l_0 m		
	Mass (rotating components of an idler set) m_{Ro} kg		Diameter d_{Ro} mm		
	Flat-to-trough transition length l_0 mm		Pulley lift h_{Tr} mm		
Return run	Return run				
	Carrying idler arrangement - part	Troughing angle λ °	Idler spacing l_0 m		
	Mass (rotating components of an idler set) m_{Ro} kg		Diameter d_{Ro} mm		
Drives -Pulleys					
		Pulley 1	Pulley 2	Pulley 3	Pulley 4
	Power (kW)	.....	.....	.....	.....
	Wrap angle (degrees)	.....	.....	.....	.....
	Diameter (mm)	.....	.....	.....	.....
	Surface(bare/rubber/ceramic)	.....	.....	.....	.....
	Condition(dry/wet)	.....	.....	.....	.....
	Tension @ entry side (kN)	T_1	$T_{1/2}$	T_3	$T_{3/4}$
	Tension @ leaving side(kN)	$T_{1/2}$	T_2	$T_{3/4}$	T_4
	Distance between reverse bending of the belt i.e. between points A and B or C and D	..... m			
Gearbox type	Start up time	sec	Breaking time (normal)	sec	
Gearbox ratio	Start-up factor		Breaking time (emergency)	sec	
Take up	Location	Head <input type="checkbox"/>	Tail <input type="checkbox"/>	Other <input type="checkbox"/>	
	Type	Counter weight / movable <input type="checkbox"/>	Screw/fixd <input type="checkbox"/>	Winch/adapted tensioning <input type="checkbox"/>	Hydraylic <input type="checkbox"/>
		Manual <input type="checkbox"/>	Motorized <input type="checkbox"/>		
	Length	..... m	Belt Tension at take up	..... kN	
Additional Information	<u>Belt Cleaning - Belt turnover - Training devices etc</u>				
				
				
				
				
				

