

The Institute of Materials Handling



Client logo

Data sheet Belt magnet

Project name
Project no.
Tag no.
Tag description

Document no.
Revision no.
P&ID no.
Status

	Originator	Date	Checked by	Date
Process				
Mechanical				
Electrical				
Approved by		Date	Professional registration no.	
Client (if applicable)				
Lead engineer				

General information

Corrosion protection	Reference drawing no.
Engineering specifications	Service
Installation	
Remarks	

Site

Altitude(AMSL)	m	Location	
Ambient temperature maximum	°C	Rainfall	mm/y
Ambient temperature minimum	°C	Wind velocity	km/h
Barometric pressure	kPa	Humidity	%
Underground atmospheric classification		Class	Division

Process

Feed material data			
Material handled		Particle size maximum	mm
Material shape		Bulk density	kg/m ³
Material depth on belt	mm	Angle of repose	degree
Flow rate minimum	tph	Angle of surcharge	degree
Flow rate normal	tph	Operating days per annum	d
Flow rate maximum	tph	Operating hours per day	h
Temperature maximum	°C		

Tramp material data

Material concentration	kg	Particle size maximum	mm
Material maximum mass	g/kg		

Material characteristics

Abrasive	Explosive
Combustible	Friable
Corrosive	Hygroscopic
Dusty	Toxic
Erosive	



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General design information

Conveyor tag number	Location	inline/cross belt
Refer to instrumentation datasheet for more information		yes/no

Information to be supplied by vendor

Magnet data

Type of magnet		Power consumption	kW
Maximum size of trap iron lifted	mm	Temperature maximum	°C
Maximum mass of trap iron lifted	kg	Height above conveyor belt	mm
Coil current density	A/mm ²	Suspension gear safety ratio	
Coil temperature maximum	°C	Magnet mass	kg

Shipping & installation

Information to be supplied by vendor shipping and installation

Heaviest lift	kg	Overall height	mm
Heaviest maintenance lift	kg	Overall length	mm
Weight driver	kg	Overall width	mm
Maximum foundation loading	kg	Total shipping weight	kg
Net weight	kg	Total shipping volume	m ³
Operating weight	kg		

Underground dimensions

Underground applicable		Cage length	mm
Headroom available	mm	Cage width	mm