

# The Institute of Materials Handling



Client logo

## Data sheet Vibrating conveyor

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	
<b>Remarks</b>	

### Site

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

### Process

Feed material data			
Material handled		Angle of repose	degree
Capacity minimum	kg/h	Angle of repose surcharge	degree
Capacity normal	kg/h	<b>Moisture content (free)</b>	%
Capacity maximum	kg/h	Operating days per annum	days
Temperature	°C	Operating hours per day	hours
Particle size maximum	mm	Feed from static head	
Particle size normal	mm	Drop height	mm
Particle size minimum	mm	Feed continuous	

### Material characteristics

Abrasive	Fibrous
Combustible	Friable
Corrosive	Hygroscopic
Dusty	Toxic
Erosive	Flowability
Explosive	



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**Mechanical**

<b>Design data</b>			
Design capacity	kg/h	Length	mm
Minimum operating load	kg/h	Width	mm
Maximum head above feed	m	Height	mm
Inclination maximum	degree	Trough length	mm
Inclination minimum	degree	Trough width	mm
Operating cycle		Supports front	
Support center - lengthwise	mm	Supports rear	
Support center - breadth	mm		

**Information to be supplied by vendor**

<b>Materials of construction</b>		
	Material	Thickness
Trough base		mm
Trough frame		mm
Trough liner		mm
Trough sides		mm

**Drive**

Manufacturer		Full load torque at start	N
Type		Full load torque running	N
Vibrating frequency	Hz		

**Sound intensity**

Sound intensity actual @ 1m	db
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**Electrical**

<b>System information</b>			
Supply voltage	V	Type of system earthing	
Voltage variations	V	Area classification (SABS 0108)	
Maximum voltage unbalance	%	Hazardous gas/dust	
Total voltage harmonic content	%	Cable size	mm <sup>2</sup>
Supply frequency	Hz	Cable type	
Temperature classification of gas/dust			

**Data to be supplied by vendor**

Manufacturer		Equivalent circuit	
Frame size		Winding connection	
Year of manufacture		Insulation class	
Serial number		Insulation type	
Rating	kW	Method of cooling (IC Code)	
Full load current	A	Method of mounting (IM Code)	
Class of rating (IEC 60034-1 class 4 2)		Lubricant type/grade	
Enclosure classification IP code		Type of explosion protection	
Power factor at 100% load		Efficiency at 100% load	%
Power factor at 75% load		Efficiency at 75% load	%
Power factor at 50% load		Efficiency at 50% load	%



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<b>Data to be supplied by vendor</b>			
Temperature rise	°C	Break away torque	Nm
Locked rotor current	A	Pull out torque	Nm
Locked rotor power factor		Pull up torque	Nm
Locked rotor withstand time cold	s	Full load torque	Nm
Locked rotor withstand time warm	s	Moment of inertia of load (MIL)	kg/m <sup>2</sup>
Allowable no. of starts per hour cold		Moment of inertia of motor rotor	kg/m <sup>2</sup>
Allowable no. of starts per hour warm		MIL referred to motor shaft	kg/m <sup>2</sup>
Maximum thrust continuous (down)		Temperature rating	
Maximum thrust momentary (down)		Sound intensity	db
Type of bearing non-drive end		Type of bearing drive end	
Direction of rotation viewed from non-drive end			
Terminal box position viewed from non-drive end			
Speed vs. torque curve at full volts required			
Speed vs. torque curve at 85% full volts required			
Speed vs. current curve at full volts required			
Speed vs. current curve at 85% full volts required			
Speed vs. power curve at full volts required			
Speed vs. power curve at 85% full volts required			

<b>Inspection &amp; testing</b>	
<b>Mechanical</b>	<b>Electrical</b>
Motion amplitude	Shop inspection required

**Shipping & installation**

<b>Information to be supplied by vendor</b>			
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 <sup>3</sup>
Operating weight	kg		

**Underground dimensions**

Underground applicable		Cage length	mm
Headroom available	mm	Cage width	mm