



ANDRITZ GROUP

METRIS VIBE QUOTATION SUPPORT

JULY- 2024

ANDRITZ

ENGINEERED SUCCESS

Content

1 PURPOSE

2 NUMBER OF SENSORS PER MACHINE TYPE

3 NUMBER OF GATEWAYS REQUIRED

4 GATEWAY PLACEMENT OUTSIDE ATEX ZONE

5 DATA REQUIREMENT FOR NON-ANDRITZ EQUIPMENT

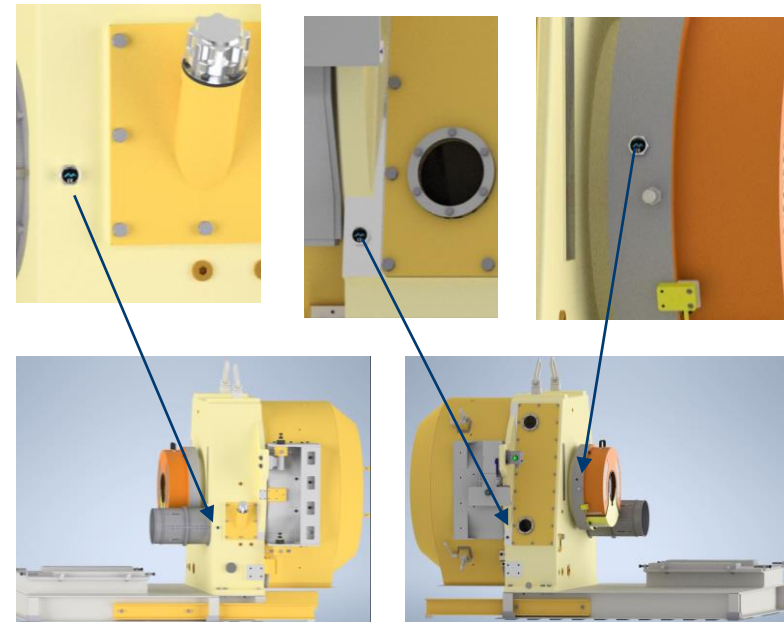
PURPOSE

- The purpose of this document is to provide additional quotation support for Metris Vibe projects
- In addition to this document, FB-AD is always ready to support directly
Contact: fb-automation@andritz.com

NUMBER OF SENSORS PER MACHINE TYPE

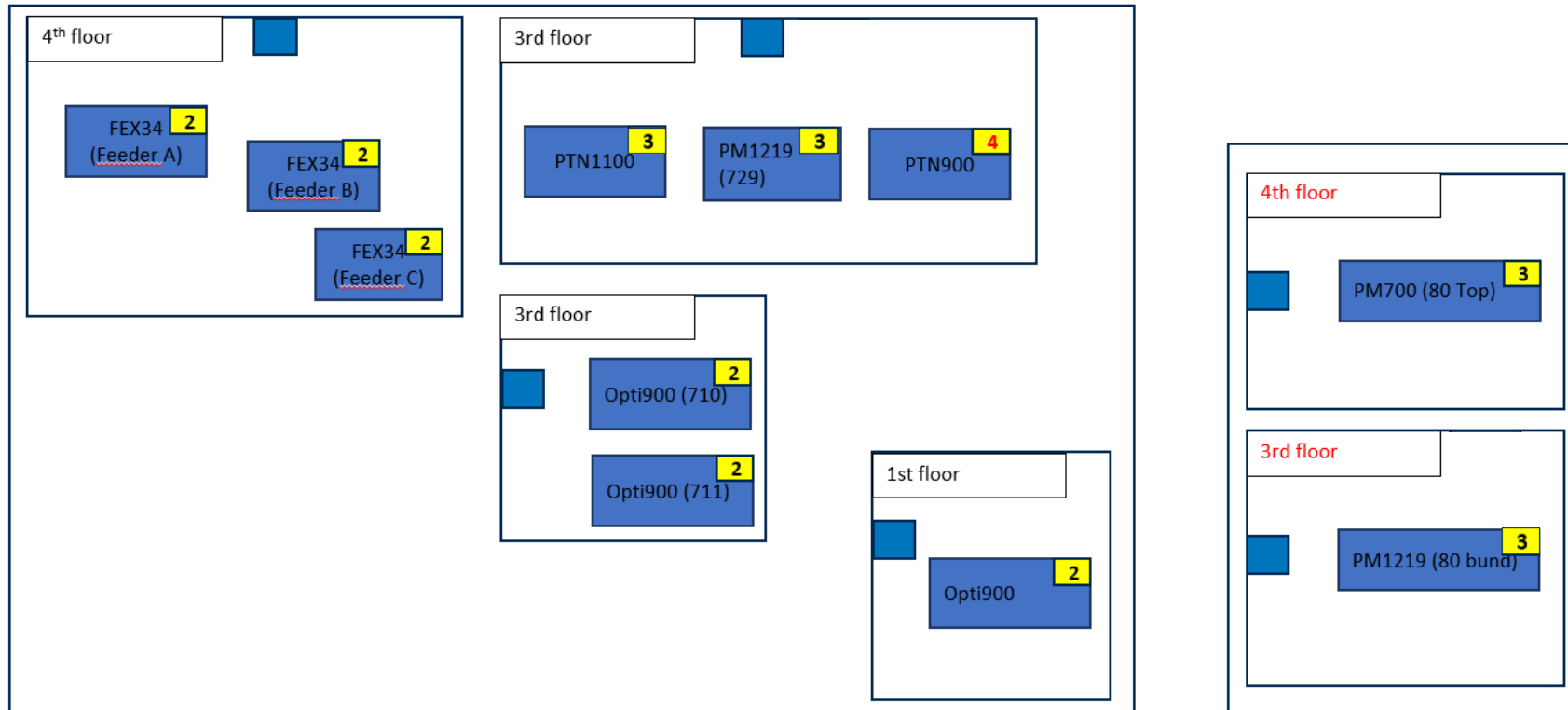
Machine_Model	Machine_Group	Tech Specs Complete	# Main Sensors	Main Sensors Locations	# Optional Sensors	Optional Sensors Locations	Assembly DRW	DRW SAP Number
Feedmax_G7	PELLET_PRESS	Complete	3	1.- Pinion_Shaft 2.- Main_Shaft_Rear 3.- Main_Bearing_Front	1	1.- Main_Motor	703258156	208464642
Feedmax_G9							703258250	208464659
Feedmax_G12							703258250	208464659
PM615W /KW								
PM30	PELLET_PRESS_BIOFUEL	Complete	3	1.- Pinion_Shaft 2.- Main_Shaft_Rear 3.- Main_Bearing_Front	1	1.- Main_Motor	703372820	209619184
Paladin_800	PALADIN	Complete	3	1.- Pinion_Shaft_Left 2.- Pinion_Shaft_Right 3.- Main_Shaft_Rear	2	1.- Motor_Left 2.- Motor_Right		
Paladin_2000								
Paladin_3000								
OPT500	Hammer_Mill	Complete	2	1.- Bearing_Housing_NMDE 2.- Bearing_Housing_MDE	1	1.- Main_Motor	703279891	208491873
OPT700							703279891	208491873
OPT900							703279891	208491873
OPT1201							703279901	208491879
MULTI630B								
MULTI800B								
MULTI1000B								
MULTI1400C								
FEX34 & FEX42	Feed_Expander	Complete	2	1.- Bearing_Housing_NMDE 2.- Bearing_Housing_MDE	1	1.- Main_Motor	703387506	209638350
EX0618	Ex_VBelt	Complete	3	1.- Bearing_Housing_MDE 2.- Bearing_Housing_NMDE 3.- Knife_Housing	3	1.- Main_Motor 2.- Feeder_Motor 3.- Knife_Motor		
EX0621								
EX1021								

Example positioning on FeedMax



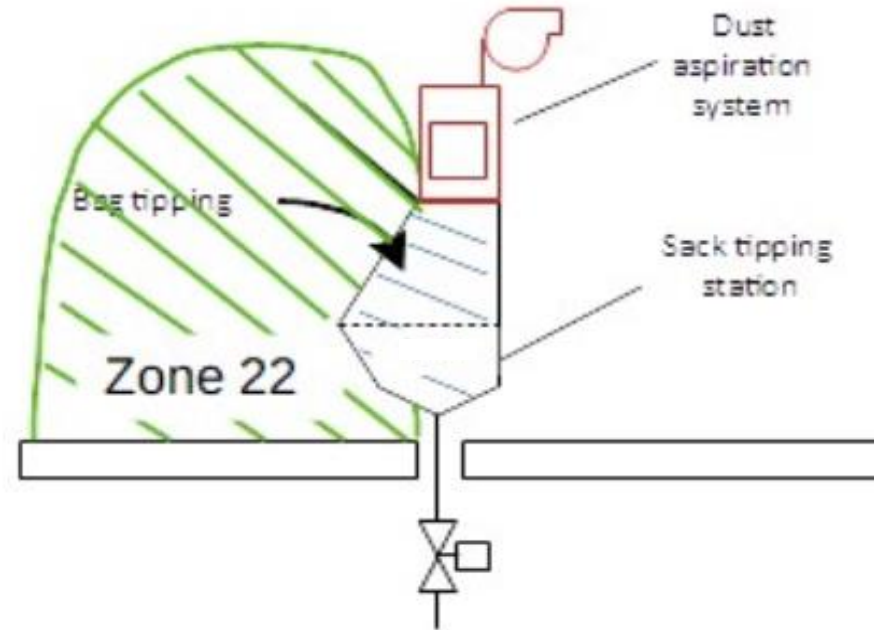
NUMBER OF GATEWAYS REQUIRED

- One Gateway coverage is approx. 150 m² room (actual coverage depends on local conditions)
- Always include a Gateway for each room where the Equipment is installed
- Each Gateway connects with up to 20 Metris Vibe sensors
- The connectivity capabilities of the Sensors, **at perfect conditions**, is up to 40 meters



Example Installation
(6 rooms with 6 gateways)

GATEWAY PLACEMENT OUTSIDE ATEX ZONE



Placement of the Bluetooth Gateway shall be outside of any ATEX Zones as the Gateway is not ATEX compliant


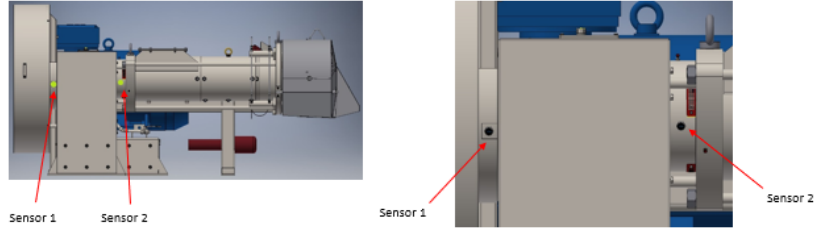

DATA REQUIREMENT FOR NON-ANDRITZ EQUIPMENT

Minimum requirements:

1. Main Motor speed
2. Execution type (Belt or Gear drive)
3. RPM of rotating shafts
 1. Can be measured with Tachometer
4. Photo of
 1. The Equipment from different angles
 2. The Machine plate
 3. The Motor plate

Note:

- Sensors and Gateways will be configured based on this required data
- Customer can supply the needed data or Andritz can provide a quote for a visit onsite to retrieve this data

Template date	22-09-2021	Machine Installation Datasheet (MID)		
Template author	Tomas Sabo			
Document date				
Document author				
VIBRATION ANALYSIS				
Equip. Part number		Equip. Name	FEX34 (Feeder A)	
Project WBS				
AC MOTOR				
FRAME SIZE:	POWER (KW):	315	NOMINAL SPEED (rpm):	1495
INSULATION CLASS:	CURRENT (A):		BEARING HDE:	BEARING DE:
		VOLTAGE:		
POWER TRANSMISSION ELEMENT				
V-BELT	TYPE:	SPC 4760		
BELT TRANSMISSION			BEARINGS	
Drive Pulley	V-BELT PULLEY TL6060 T2 - SPC 336 X 10		Roller bearing	Drive end: SKF 22230 CC/W33 Non drive end: SKF 22230 CC/W33
Driven Pulley	V-BELT PULLEY TL6060 T10 - SPC 1260 X 10		Thrust roller bearing	Drive end: SKF 29338 E
Ratio	0,268			
PHOTO/DRAWING				
				
Sensor Direction/Orientation				
				
List Installed Sensors				
Sensor 1 (FeederA_MV)	Serial Number:		Direction - orientation setting	
	B0873		x: axial,	
	Equipment Bearing:		y: *horizontal	
	SKF 22230 CC/W33 , SKF29338 E		z: vertical	
	Coupled to main drive? <input checked="" type="checkbox"/> yes/no		Speed tag OPC connectivity	
If yes, speed ratio to main drive 0,268		OPC address:	Username:	
If no, rot. speed or speed tag		OPC IP address:	Password:	
Sensor 2 (FeederA_MV)	Serial Number:		Direction - orientation setting	
	B1624		x: axial,	
	Equipment Bearing:		y: *horizontal	
	SKF 22230 CC/W33		z: vertical	
	Coupled to main drive? <input checked="" type="checkbox"/> yes/no		Speed tag OPC connectivity	
If yes, speed ratio to main drive 0,268		OPC address:	Username:	
If no, rot. speed or speed tag		OPC IP address:	Password:	

LEGAL DISCLAIMER



© ANDRITZ AG 2022

This presentation contains valuable, proprietary property belonging to ANDRITZ AG or its affiliates (“the ANDRITZ GROUP”), and no licenses or other intellectual property rights are granted herein, nor shall the contents of this presentation form part of any sales contracts which may be concluded between the ANDRITZ GROUP companies and purchasers of any equipment and/or systems referenced herein. Please be aware that the ANDRITZ GROUP actively and aggressively enforces its intellectual property rights to the fullest extent of applicable law. Any information contained herein (other than publically available information) shall not be disclosed or reproduced, in whole or in part, electronically or in hard copy, to third parties. No information contained herein shall be used in any way either commercially or for any purpose other than internal viewing, reading, or evaluation of its contents by recipient and the ANDRITZ GROUP disclaims all liability arising from recipient’s use or reliance upon such information. Title in and to all intellectual property rights embodied in this presentation, and all information contained therein, is and shall remain with the ANDRITZ GROUP. None of the information contained herein shall be construed as legal, tax, or investment advice, and private counsel, accountants, or other professional advisers should be consulted and relied upon for any such advice.

All copyrightable text and graphics, the selection, arrangement, and presentation of all materials, and the overall design of this presentation are © ANDRITZ GROUP 2022. All rights reserved. No part of this information or materials may be reproduced, retransmitted, displayed, distributed, or modified without the prior written approval of Owner. All trademarks and other names, logos, and icons identifying Owner’s goods and services are proprietary marks belonging to the ANDRITZ GROUP. If recipient is in doubt whether permission is needed for any type of use of the contents of this presentation, please contact the ANDRITZ GROUP at welcome@andritz.com.