Inspection Certificate

Test Certificate 3.1 acc. DIN EN 10204

Hofmann.
Intelligent Balancing Solutions

Customer	Neo-Tec	
Location	ul. Kobiałka 11a 09-411 Płock, Polen	
Order-No.	A20-047177	
Machine Type	HS 26	
Pedestal Type	HS 26	
Unbalance Measuring System	Quasar 2	
Test Performed by	Hofmann Mess- und Auswuchttechnik GmbH & Co. KG	
	Werner-von-Siemens-Str. 21, D-64319 Pfungstadt	
Testing Device	Unbalance Shaker	
Testing Device No.	PH-003601	
Max. Unbalance	50.000,0	gmm
Test Unbalance	50.000,0	gmm
Angle	0,0	Grad
Perm. Deviation U, v	5,0	%
Stiffness Pedestal 1		
normal	1.600,0	N/µm
Stiffness Pedestal 2		
normal	1.600,0	N/µm

Testing Method

Setup certified Hofmann unbalance exciter into the bearing head. Connect speed sensor to measuring system of HS installation. Check unbalance and vibration calibration at different speeds within the operational range of the unbalance exciter.

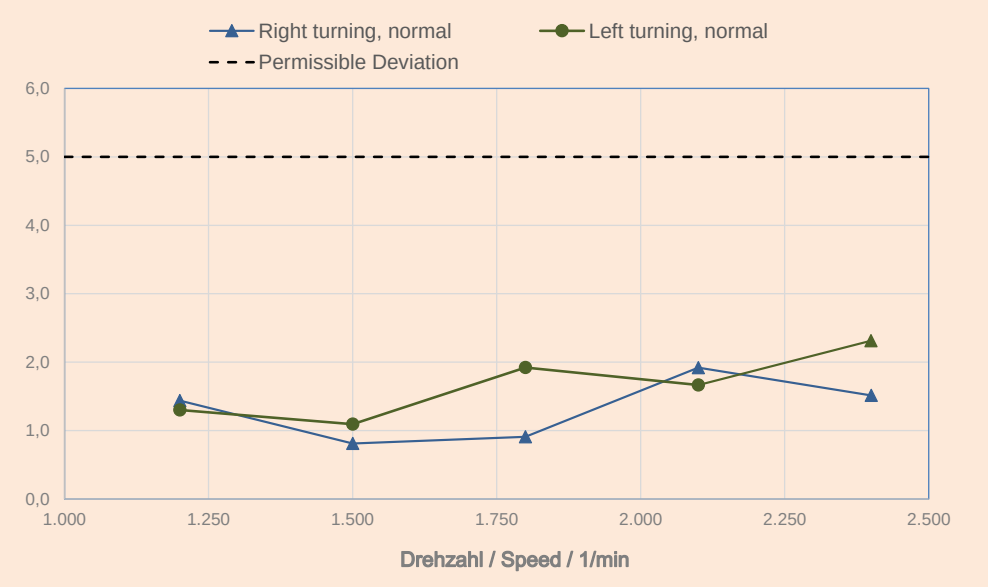
Permissible values and deviations are given by manufacturer.

Comment			
Date of Test	11/2024	Next Recommended Test	11/2025
Test passed	**yes**		

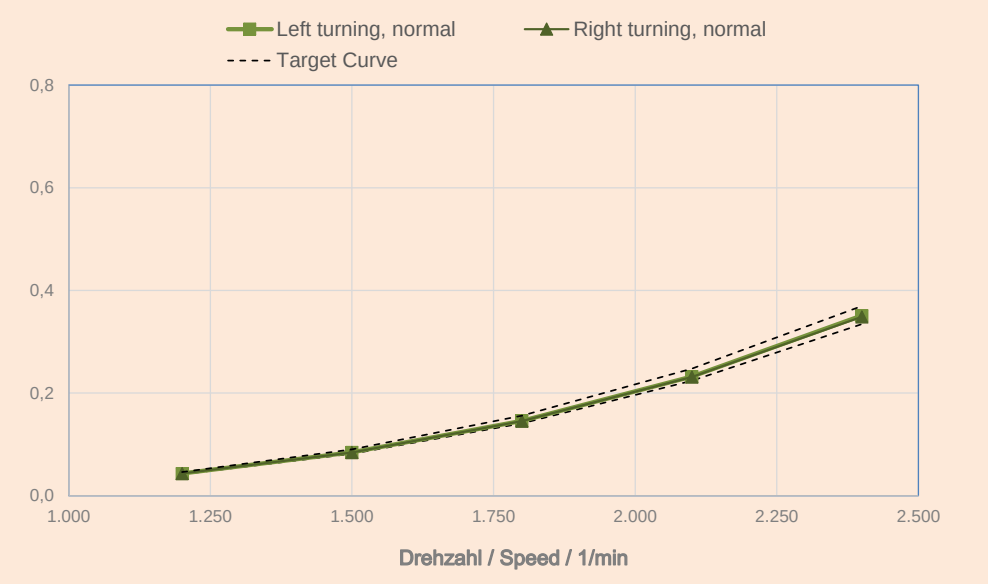
		Signature	Stamp
Date	06.11.2024		Hofmann Mess- und Auswuchttechnik GmbH & Co. KG Werner-von-Siemens-Str. 21 64319 Pfungstadt
Inspector	i.A. Alborz Aghdaie		

Diagrams Pedestal 1

Test of low-speed Unbalance Measurement

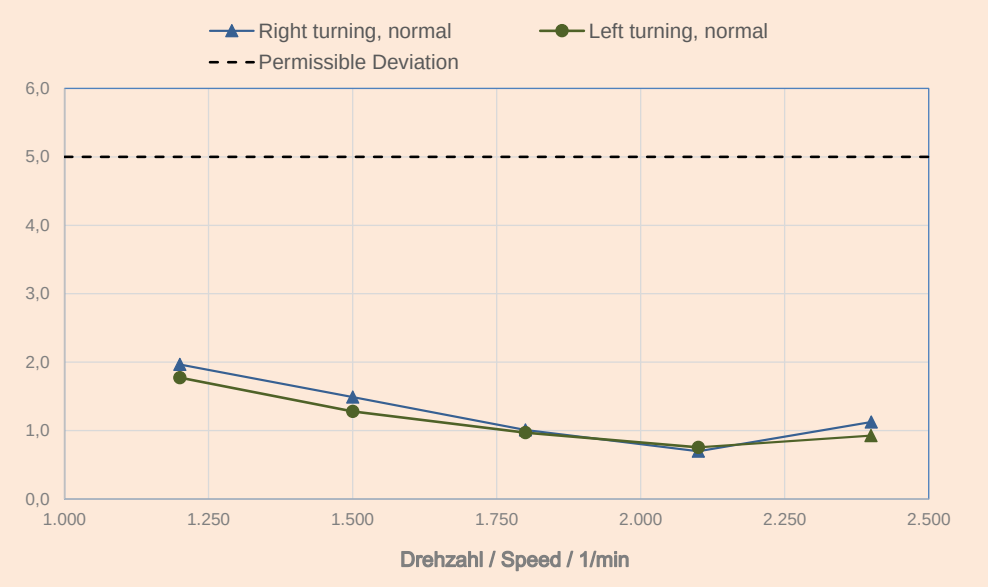


Test Vibration Velocity Measurement

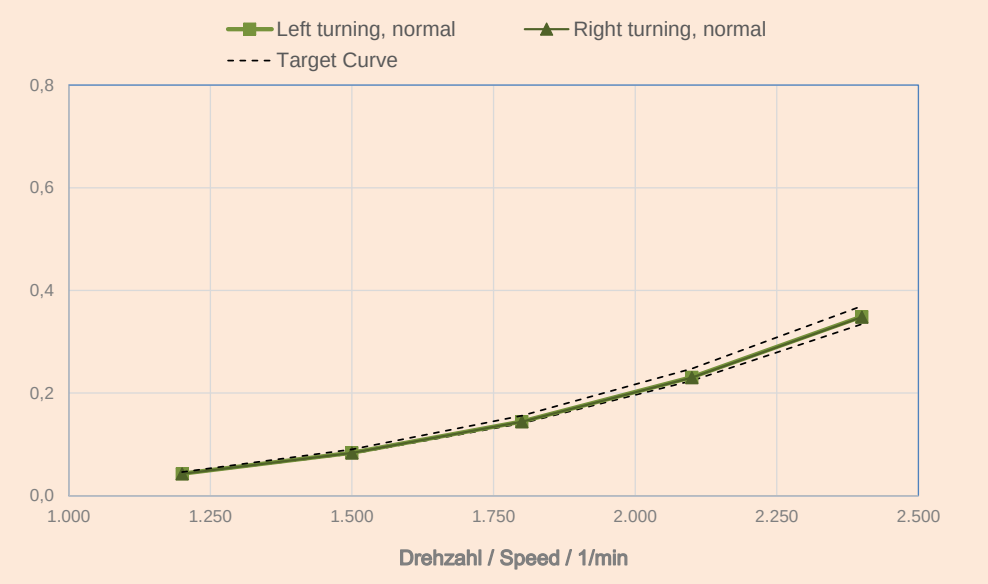


Diagrams Pedestal 2

Test of low-speed Unbalance Measurement



Test Vibration Velocity Measurement



Right turning, normal

	Unbalance U and Vibration Velocity v-RMS by Unbalance Measuring System						
	Meas. Values		Amount - Set Value		Deviation Amount		
	Amount	Angle	Amount	Angle		Status	
Pedestal 1							
Speed 1/min	U gmm	W deg.	U gmm	W deg.	ΔU %	passed yes / no	Specification achieved yes / no
1.200,0	49.615,0	0,7	50.000,0	0,0	1,4	yes	**yes**
1.500,0	49.689,0	0,3	50.000,0	0,0	0,8	yes	
1.800,0	49.706,0	359,6	50.000,0	0,0	0,9	yes	
2.100,0	49.965,0	358,9	50.000,0	0,0	1,9	yes	
2.400,0	50.289,0	359,2	50.000,0	0,0	1,5	yes	
Speed 1/min	v-RMS mm/s	W deg.	v-RMS mm/s		Δv %	passed yes / no	Specification achieved yes / no
1.200,0	0,043	169,0	0,044		1,3	yes	**yes**
1.500,0	0,084	170,0	0,086		1,7	yes	
1.800,0	0,146	170,5	0,148		2,0	yes	
2.100,0	0,232	170,9	0,236		1,8	yes	
2.400,0	0,349	170,0	0,352		1,0	yes	

Pedestal 2							
Speed 1/min	U gmm	W deg.	U gmm	W Grad	ΔU %	passed yes / no	Specification achieved yes / no
1.200,0	49.778,0	1,1	50.000,0	0,0	2,0	yes	**yes**
1.500,0	49.733,0	0,8	50.000,0	0,0	1,5	yes	
1.800,0	49.744,0	0,5	50.000,0	0,0	1,0	yes	
2.100,0	50.010,0	0,4	50.000,0	0,0	0,7	yes	
2.400,0	50.441,0	0,4	50.000,0	0,0	1,1	yes	
Speed 1/min	v-RMS mm/s	W deg.	v-RMS mm/s		Δv %	passed yes / no	Specification achieved yes / no
1.200,0	0,043	170,5	0,044		2,9	yes	**yes**
1.500,0	0,084	171,3	0,086		2,8	yes	
1.800,0	0,144	172,1	0,148		3,0	yes	
2.100,0	0,230	172,6	0,236		2,4	yes	
2.400,0	0,348	175,3	0,352		1,1	yes	

Inspection Certificate

Test Certificate 3.1 acc. DIN EN 10204

Hofmann.
Intelligent Balancing Solutions

Left turning, normal

	Unbalance U and Vibration Velocity v-RMS by Unbalance Measuring System						
	Meas. Values		Amount - Set Value		Deviation Amount		
	Amount	Angle	Amount	Angle		Status	
Pedestal 1							
Speed 1/min	U gmm	W deg.	U gmm	W deg.	ΔU %	passed yes / no	Specification achieved yes / no
1.200,0	49.611,0	359,4	50.000,0	0,0	1,3	yes	**yes**
1.500,0	49.839,0	359,4	50.000,0	0,0	1,1	yes	
1.800,0	50.031,0	1,1	50.000,0	0,0	1,9	yes	
2.100,0	50.271,0	0,9	50.000,0	0,0	1,7	yes	
2.400,0	50.752,0	1,0	50.000,0	0,0	2,3	yes	
Speed 1/min	v-RMS mm/s	W deg.	v-RMS mm/s		Δv %	passed yes / no	Specification achieved yes / no
1.200,0	0,043	177,4	0,044		1,3	yes	**yes**
1.500,0	0,085	178,8	0,086		1,6	yes	
1.800,0	0,146	179,6	0,148		1,6	yes	
2.100,0	0,232	180,0	0,236		1,6	yes	
2.400,0	0,351	179,5	0,352		0,2	yes	

Pedestal 2							
Speed 1/min	U gmm	W deg.	U gmm	W Grad	ΔU %	passed yes / no	Specification achieved yes / no
1.200,0	49.117,0	0,1	50.000,0	0,0	1,8	yes	**yes**
1.500,0	49.366,0	0,1	50.000,0	0,0	1,3	yes	
1.800,0	49.523,0	0,1	50.000,0	0,0	1,0	yes	
2.100,0	49.854,0	359,6	50.000,0	0,0	0,8	yes	
2.400,0	50.304,0	359,6	50.000,0	0,0	0,9	yes	
Speed 1/min	v-RMS mm/s	W deg.	v-RMS mm/s		Δv %	passed yes / no	Specification achieved yes / no
1.200,0	0,043	177,7	0,044		2,2	yes	**yes**
1.500,0	0,084	177,0	0,086		2,6	yes	
1.800,0	0,144	177,9	0,148		2,7	yes	
2.100,0	0,231	178,0	0,236		2,0	yes	
2.400,0	0,349	177,0	0,352		0,8	yes	