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.	A13-030074	
Machine Type	HS 23	
Pedestal Type	HS 23	
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	10.000,0	gmm
Angle	0,0	Grad
Perm. Deviation U, v	5,0	%
Stiffness Pedestal 1		
normal	750,0	N/µm
Stiffness Pedestal 2		
normal	750,0	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.

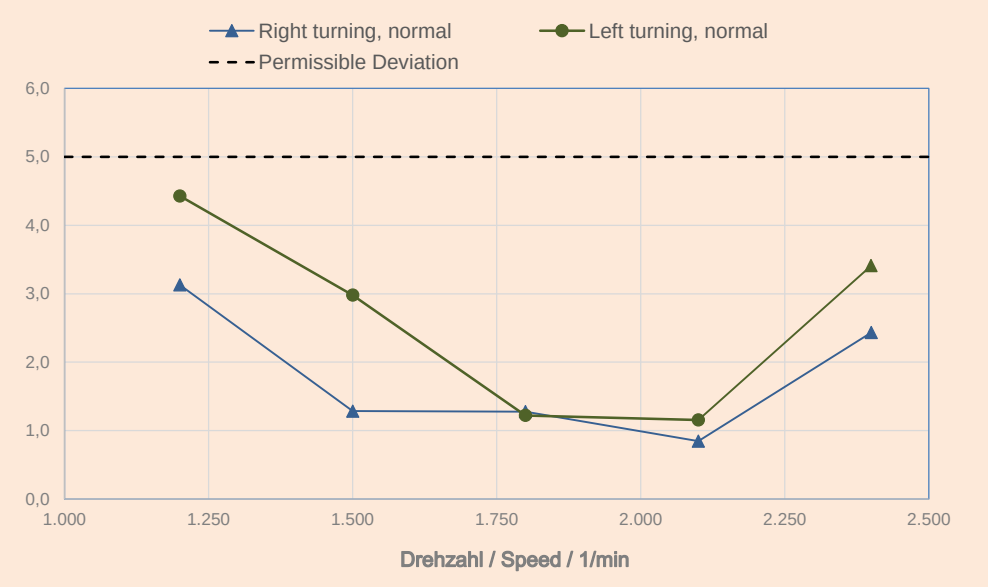
Permissible values and deviations are given by manufacturer.

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

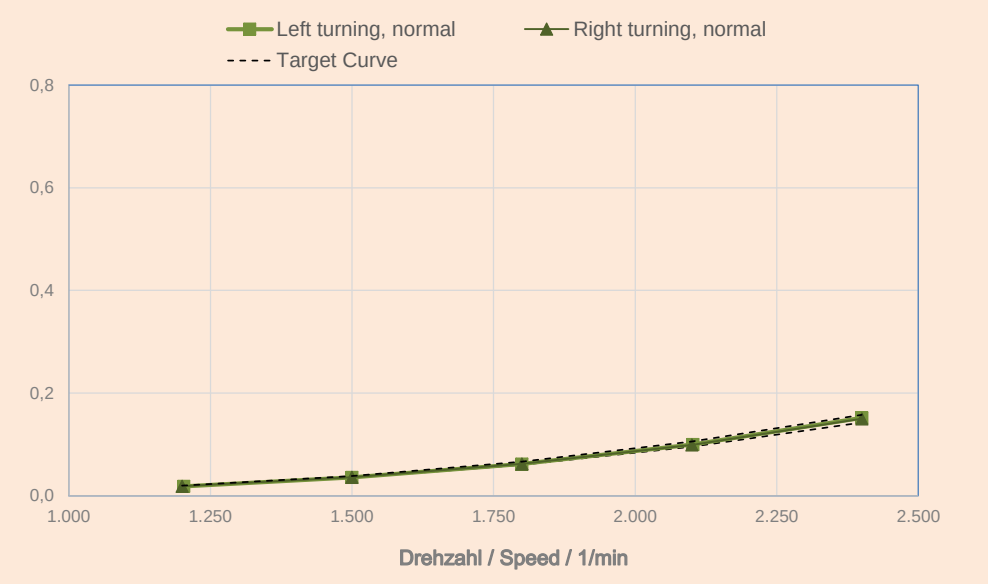
		Signature	Stamp
Date	05.11.2024		Hofmann Mess- und Auswuchttechnik GmbH & Co. KG Werner-von-Siemens-Str. 21 64319 Pfungstadt
Inspector	i.A. Alborz Aghdaie		

Diagrams Pedestal 1

Test of low-speed Unbalance Measurement

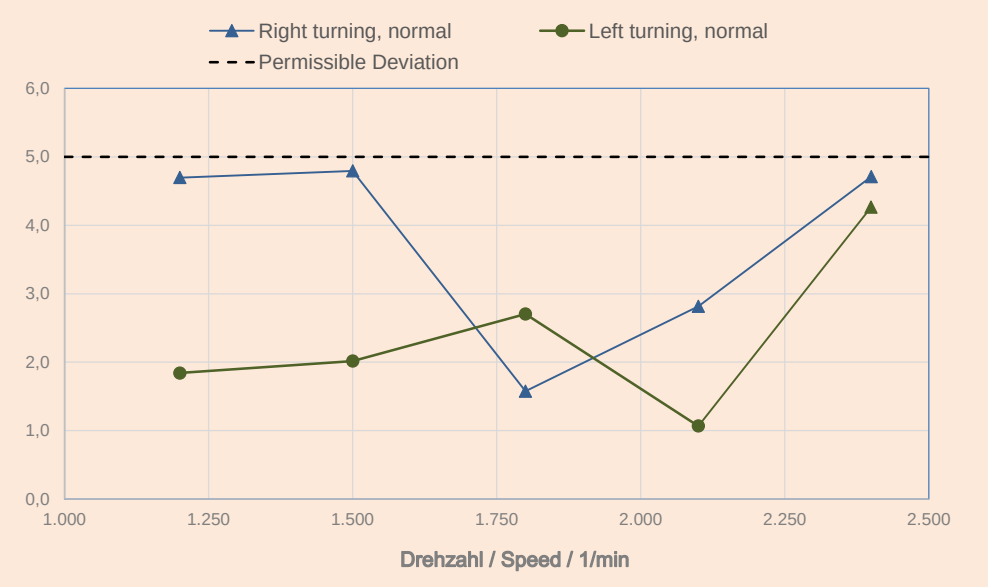


Test Vibration Velocity Measurement

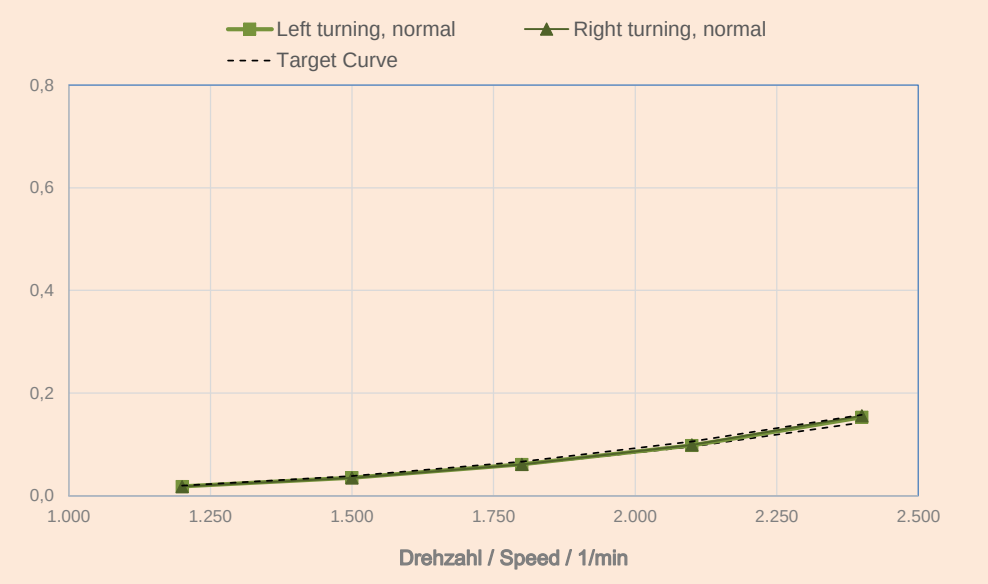


Diagrams Pedestal 2

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	9.825,0	358,5	10.000,0	0,0	3,1	yes	**yes**
1.500,0	9.925,0	359,4	10.000,0	0,0	1,3	yes	
1.800,0	9.961,7	359,3	10.000,0	0,0	1,3	yes	
2.100,0	10.077,0	0,2	10.000,0	0,0	0,8	yes	
2.400,0	10.168,0	1,0	10.000,0	0,0	2,4	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	0,019	300,8	0,019		1,4	yes	**yes**
1.500,0	0,036	300,4	0,037		1,8	yes	
1.800,0	0,062	300,2	0,063		2,1	yes	
2.100,0	0,099	299,1	0,101		1,6	yes	
2.400,0	0,150	300,0	0,150		0,1	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	9.722,0	357,8	10.000,0	0,0	4,7	yes	**yes**
1.500,0	9.552,0	359,0	10.000,0	0,0	4,8	yes	
1.800,0	9.986,0	0,9	10.000,0	0,0	1,6	yes	
2.100,0	10.032,0	1,6	10.000,0	0,0	2,8	yes	
2.400,0	10.454,0	0,7	10.000,0	0,0	4,7	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	0,018	64,0	0,019		4,6	yes	**yes**
1.500,0	0,035	65,8	0,037		4,8	yes	
1.800,0	0,061	66,0	0,063		3,7	yes	
2.100,0	0,099	65,0	0,101		1,6	yes	
2.400,0	0,156	66,3	0,150		3,9	yes	

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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	9.683,0	358,2	10.000,0	0,0	4,4	yes	**yes**
1.500,0	9.854,0	358,5	10.000,0	0,0	3,0	yes	
1.800,0	9.997,0	359,3	10.000,0	0,0	1,2	yes	
2.100,0	10.110,0	359,8	10.000,0	0,0	1,2	yes	
2.400,0	10.280,0	1,1	10.000,0	0,0	3,4	yes	
Speed 1/min	v-RMS mm/s	W deg.	v-RMS mm/s		Δv %	passed yes / no	Specification achieved yes / no
1.203,0	0,018	86,6	0,019		2,7	yes	**yes**
1.500,0	0,036	87,5	0,037		1,8	yes	
1.800,0	0,062	88,9	0,063		2,1	yes	
2.102,0	0,100	88,6	0,101		0,8	yes	
2.400,0	0,152	90,0	0,150		1,3	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	9.879,0	0,8	10.000,0	0,0	1,8	yes	**yes**
1.500,0	9.799,0	359,9	10.000,0	0,0	2,0	yes	
1.800,0	9.827,0	1,2	10.000,0	0,0	2,7	yes	
2.100,0	9.938,0	0,5	10.000,0	0,0	1,1	yes	
2.400,0	10.413,0	0,6	10.000,0	0,0	4,3	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	0,018	89,9	0,019		2,5	yes	**yes**
1.500,0	0,035	89,5	0,037		3,4	yes	
1.800,0	0,061	88,9	0,063		3,7	yes	
2.100,0	0,098	88,7	0,101		2,6	yes	
2.400,0	0,153	88,5	0,150		1,9	yes	