


Inspection Certificate



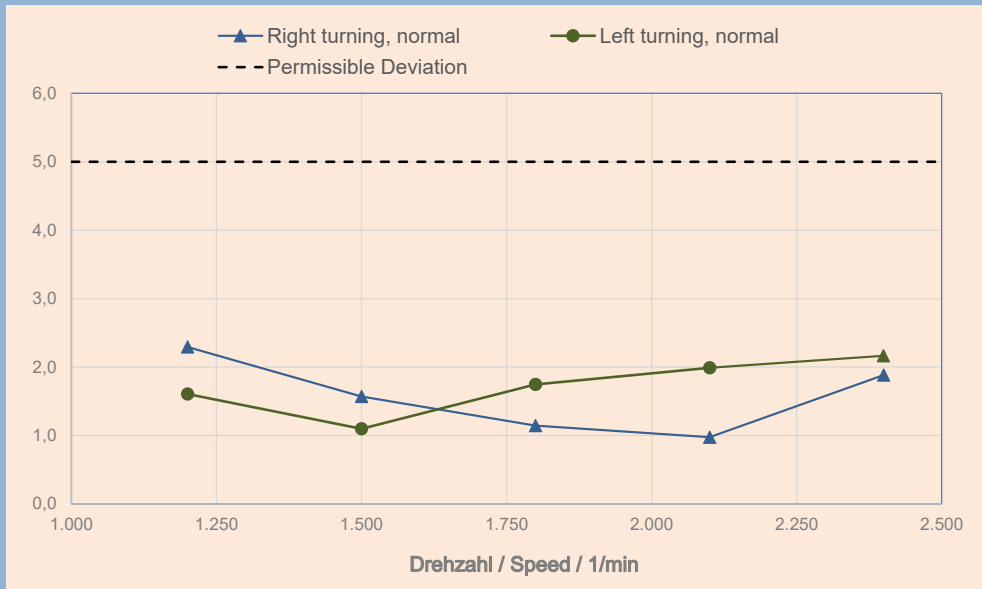
Test Certificate 3.1 acc. DIN EN 10204

Intelligent Balancing Solutions

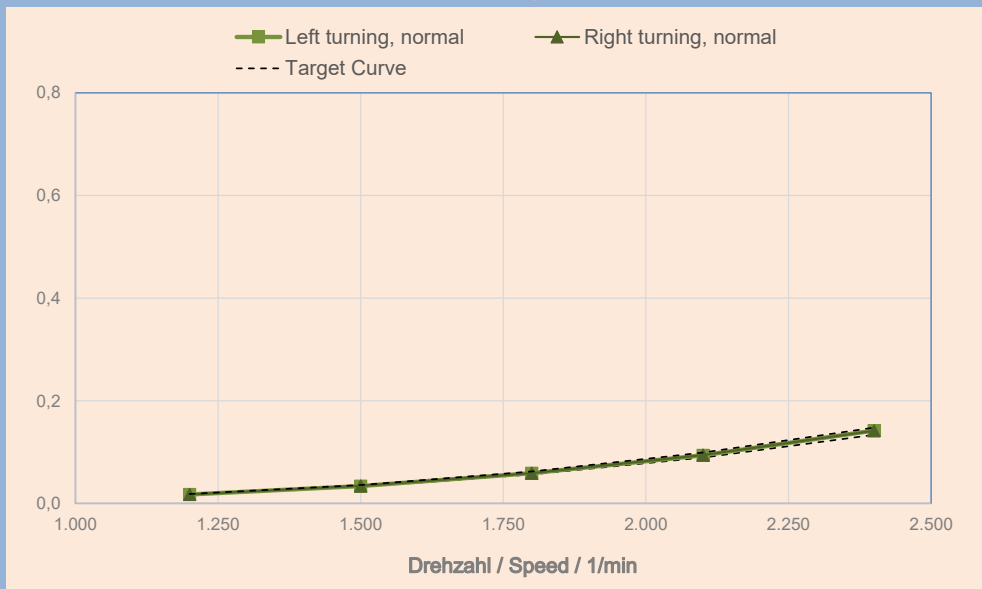
Customer	Neo-Tec	
Location	ul. Kobiałka 11a 09-411 Plock, Polen	
Order-No.	A20-047177	
Machine Type	HS 26	
Pedestal Type	HS 26	
Unbalance Measuring System	Quasar 2	
Test Performed by	Hofmann Mess- und Auswuchttechnik GmbH & Co. KG Werner-von-Siemens-Str. 21, D-64319 Pfungstadt	
Testing Device	Unbalance Shaker	
Testing Device No.	PH-003601	
Max. Unbalance	50.000,0	gmm
Test Unbalance	20.000,0	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	<p>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.</p> <p>Permissible values and deviations are given by manufacturer.</p>	
Comment	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
Date of Test	11/2021	Next Recommended Test: 11/2022
Test passed	yes	
Date	24.11.2021	Signature
Inspector	i.A. Alborz Aghdaie	
		Stamp
		Hofmann Mess- und Auswuchttechnik GmbH & Co. KG Werner-von-Siemens-Str. 21 64319 Pfungstadt

Diagrams Pedestal 1

Test of low-speed Unbalance Measurement

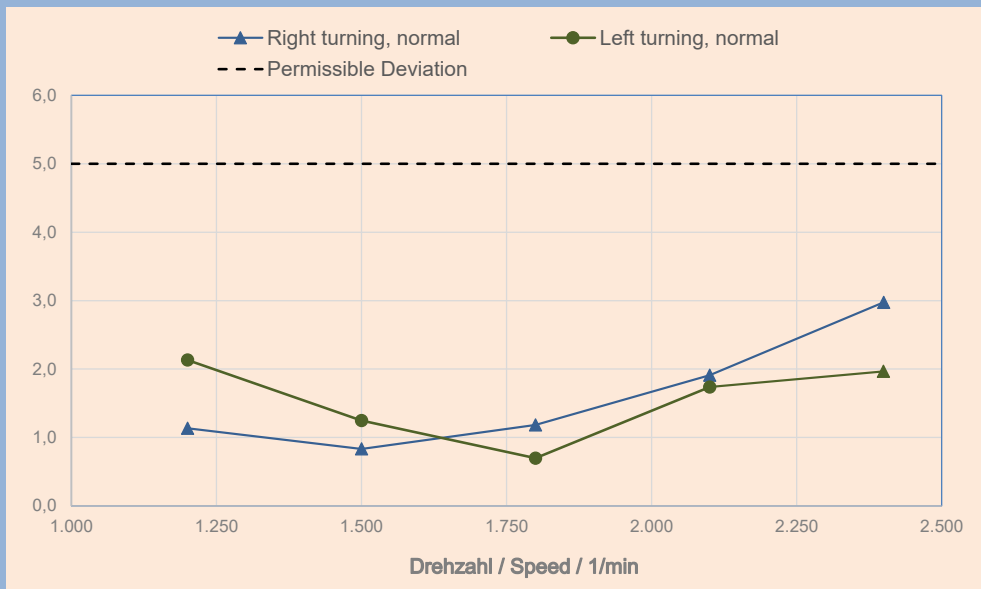


Test Vibration Velocity Measurement

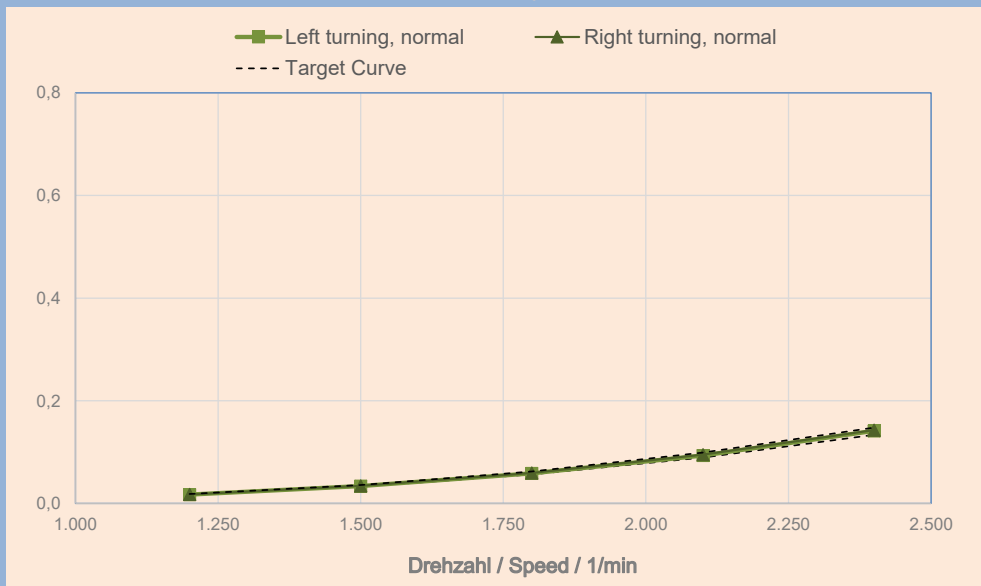


Diagrams Pedestal 2

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	19.928,0	358,7	20.000,0	0,0	2,3	yes	yes
1.500,0	19.993,5	359,1	20.000,0	0,0	1,6	yes	
1.800,0	20.091,0	359,4	20.000,0	0,0	1,1	yes	
2.100,0	20.182,0	0,2	20.000,0	0,0	1,0	yes	
2.400,0	20.375,0	0,1	20.000,0	0,0	1,9	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	0,018	85,7	0,018		0,5	yes	yes
1.500,0	0,034	86,5	0,034		0,2	yes	
1.800,0	0,059	86,3	0,059		0,5	yes	
2.100,0	0,094	86,2	0,094		0,0	yes	
2.400,0	0,142	87,0	0,141		0,7	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	20.087,0	359,4	20.000,0	0,0	1,1	yes	yes
1.500,0	20.151,0	359,8	20.000,0	0,0	0,8	yes	
1.800,0	20.237,0	0,0	20.000,0	0,0	1,2	yes	
2.100,0	20.382,0	360,0	20.000,0	0,0	1,9	yes	
2.400,0	20.594,0	0,1	20.000,0	0,0	3,0	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	85,0	0,018		0,5	yes	yes
1.500,0	0,034	85,1	0,034		0,5	yes	
1.800,0	0,059	85,5	0,059		0,1	yes	
2.100,0	0,095	85,9	0,094		0,8	yes	
2.400,0	0,143	85,4	0,141		1,6	yes	

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	19.930,0	0,9	20.000,0	0,0	1,6	yes	yes
1.500,0	19.933,0	359,4	20.000,0	0,0	1,1	yes	
1.800,0	20.009,0	359,0	20.000,0	0,0	1,7	yes	
2.100,0	20.188,0	359,0	20.000,0	0,0	2,0	yes	
2.400,0	20.329,0	359,2	20.000,0	0,0	2,2	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	86,6	0,018		0,5	yes	yes
1.500,0	0,034	86,7	0,034		1,0	yes	
1.800,0	0,059	87,0	0,059		0,6	yes	
2.100,0	0,094	86,7	0,094		0,3	yes	
2.400,0	0,142	87,1	0,141		0,9	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	19.811,0	1,1	20.000,0	0,0	2,1	yes	yes
1.500,0	19.863,0	0,6	20.000,0	0,0	1,2	yes	
1.800,0	20.001,0	0,4	20.000,0	0,0	0,7	yes	
2.100,0	20.205,0	0,8	20.000,0	0,0	1,7	yes	
2.400,0	20.367,0	0,4	20.000,0	0,0	2,0	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	0,017	83,0	0,018		1,7	yes	yes
1.500,0	0,034	83,0	0,034		1,9	yes	
1.800,0	0,059	83,2	0,059		1,5	yes	
2.100,0	0,094	84,1	0,094		0,7	yes	
2.400,0	0,142	84,4	0,141		0,5	yes	